

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: GWEN LIANG Examiner #: 79180 Date: 11-7-02  
 Art Unit: 2172 Phone Number 30 5-3985 Serial Number: 09626965  
 Mail Box and Bldg/Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Component Management System Component Management Device  
And Computer-Readable Recording Medium

Inventors (please provide full names):

OHASHI, Tadashi

Earliest Priority Filing Date: 09/27/99

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Main Concept: A component management system for managing product parts related to computer manufacture.

Main Search: A component database for storing hardware and firmware components  
 - A management unit that manages the retrieval of a component requested by a client via network.

11-08-02 A09:29 IN

Main claim: 2, 3.

key words: hardware, firmware (programs), components hierarchy, meta data (or meta-information)

## STAFF USE ONLY

Searcher: Geoffrey ST. Lopez

Searcher Phone #: 308-7800

Searcher Location: 4B30

Date Searcher Picked Up: 11/13/02

Date Completed: 11/14/02

Searcher Prep & Review Time: 2.5 hours

Clerical Prep Time: \_\_\_\_\_

Online Time: 4.5 hours

## Type of Search

NA Sequence (#) \_\_\_\_\_

AA Sequence (#) \_\_\_\_\_

Structure (#) \_\_\_\_\_

Bibliographic ☒

Litigation \_\_\_\_\_

Fulltext ☒

Patent Family \_\_\_\_\_

Other \_\_\_\_\_

## Vendors and cost where applicable

STN \_\_\_\_\_

Dialog ☒

Questel/Orbit \_\_\_\_\_

Dr.Link \_\_\_\_\_

Lexis/Nexis \_\_\_\_\_

Sequence Systems \_\_\_\_\_

WWW/Internet ☒

Other (specify) \_\_\_\_\_

November 14, 2002

Dear Ms.Liang,

Attached please find the results of your search request for application #09/626,965. I searched Dialog's foreign patent files, technical databases, product announcement files and general files; along with the Internet.

Please let me know if you have any questions.

Regards,

A handwritten signature in cursive script, reading "Geoffrey St. Leger".

Geoffrey St. Leger  
4B30/308-7800


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Result Pages: 1 2 3 4 5 Total parts count=232

Format Date	Item MFR / Part / Type / Cond	Avail	Listing Company	Price Qty O
<b>COMPAQ</b>				
WTS Oct 30	COMPAQ 522241-002 36.4g 10k U3 80-pin tandem firmwar		IntekUSA Corp. Wholesale Member in United States	<a href="#">upgrade</a>
WTS Oct 30	COMPAQ 425754-002 Ultrastar DDYS-T336950 36.2G WU 80P		IntekUSA Corp. Wholesale Member in United States	<a href="#">upgrade</a>
WTS Oct 30	COMPAQ 127979-001 18.2g 80-pin ultra2 compaq firmware		IntekUSA Corp. Wholesale Member in United States	<a href="#">upgrade</a>
WTS Oct 30	COMPAQ 313807-001 4.5G 80-pin 7.2k rpm Compaq firmwar		IntekUSA Corp. Wholesale Member in United States	<a href="#">upgrade</a>
WTS Oct 16	COMPAQ BG-RHQEB-BA CALL FIRMWARE CARD- SWKS ACSsf MCS		MasterWorks International, Inc. Wholesale Member in United States	<a href="#">upgrade</a>
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WTS Oct 16	COMPAQ 128698-B21 CALL PC CRD- CPQ/ ACS/ FIRMWARE/ V8.		MasterWorks International, Inc. Wholesale Member in United States	<a href="#">upgrade</a>
WTS Oct 16	COMPAQ 180319-B21 CALL FIRMWARE- HSG60 FIBRE ACS FLAC		MasterWorks International, Inc. Wholesale Member in United States	<a href="#">upgrade</a>
<b>DATA GENERAL</b>				
WTS Oct 30	DATA GENERAL 5045936 36g fc-al 10k rpm st136403fc EMC fi		IntekUSA Corp. Wholesale Member in United States	<a href="#">upgrade</a>
WTS Oct 30	DATA GENERAL 118030145 36g fc-al 10k rpm st136403fc EMC fi		IntekUSA Corp. Wholesale Member in United States	<a href="#">upgrade</a>
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<b>DEC</b>				
WTS Nov 04	DEC QB-678AA-SA HSZ80 FIRMWARE KIT		California Systems Wholesale Member in United States	<a href="#">upgrade</a>
<b>DEC / COMPAQ</b>				
WTS Oct 21	DEC / COMPAQ LN09X-XF 1200dpi option + V2 firmware CALL		INSTOCOM,SL Wholesale Member in Spain	<a href="#">upgrade</a>
<b>DELL</b>				
WTS Oct 30	DELL 5760u 18.3g 10k rpm fc-al dell firmware		IntekUSA Corp. Wholesale Member in United States	<a href="#">upgrade</a>
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**WTS** DELL 2658t  
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**WTS** DELL 033her  
Oct 30 Fujitsu 18G 10K RPM Internal Non-Ho  
**WTS** DELL st39204lc  
Oct 30 9.2g u3 low-profile 10k rpm dell fi  
**WTS** DELL 4893e  
Oct 30 9.1g 80-pin drive dell firmware no  
**WTS** DELL st39204lc  
Oct 30 9.2g u3 low-profile 10k rpm dell fi  
**WTS** DELL 010ryp  
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Nov 07 HSZ50 VER 5.2 FIRMWARE 64MB CACHEUSE  
**WTS** DIGITAL 70-32836-01/C02  
Nov 07 HSZ50 VER 5.2 FIRMWARE USED  
**WTS** DIGITAL 54-23883-05  
Nov 07 HSZ50 VER 5.2 FIRMWARE/70-32186-01.  
**WTS** DIGITAL HSZ50-AF  
Nov 07 HSZ50 VER 5.2 FIRMWARE/32MB CACHEUS  
**WTS** DIGITAL HS1CP  
Nov 08 W/2.7 firmware Rev C02 in 11/1  
**WTS** DIGITAL HSZ40B  
Nov 08 W/3.1 firmware Rev B03 in 11/1  
**WTS** DIGITAL SWXRC-05  
Nov 08 W/3.1b firmware Rev A01 in 11/1  
**WTS** DIGITAL HSZ40-BF  
Nov 12 VERSION 2.7 FIRMWARE  
**WTS** DIGITAL ST32430N  
Nov 08 \*Firmware 0300  
  
**WTS** DIGITAL BG-RIUK0-1A  
Nov 05 Version 3.1 Firmware Card  
  
**WTS** DIGITAL HSJ30-AA  
Nov 05 Storageworks Array Control 130C Ba  
  
**WTS** DIGITAL HSJ30-AA  
Oct 25 Storageworks Array Control 130C Ba  
  
**WTS** DIGITAL BG-RIUK0-1A  
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**WTS** DIGITAL EQUIPMENT CORP DSRZ1DFVW  
Nov 13 Call 9.1 GB USCSI SBB IBM W/DEC FIR

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## EFFICIENT NETWORKS/SIEMENS

**WTS** EFFICIENT NETWORKS/SIEMENS 120-5871-005  
Nov 13 EFFICIENT 5871 IDSL ROUTER EXT

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## Enterasys

**WTS** Enterasys SYS-OS  
Nov 11 RS Router Firmware

Vnetek Communications, LLC  
Wholesale Member in United States [upgrade](#)

## FUJITSU

**WTS** FUJITSU cao5668-b53600dl  
Oct 30 36.4G Ultra3 (Fujitsu MAJ3364MC) Ne  
**WTS** FUJITSU MAJ3364MP  
Oct 30 Fujitsu 36G 10K RPM Internal Non-Ho  
**WTS** FUJITSU MAJ3364MP  
Oct 30 36G 10K RPM Internal Non-Hotswap dr  
**WTS** FUJITSU maj3364mc  
Oct 30 36.4G Ultra3 (Fujitsu MAJ3364MC) Ne  
**WTS** FUJITSU man3367mc  
Oct 30 36.7g 10k rpm ultra3 Sun Firmware

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<b>COMPAQ</b>				
WTS Oct 30	COMPAQ 522241-002 36.4g 10k U3 80-pin tandem firmwar		IntekUSA Corp. Wholesale Member in United States	<a href="#">upgrade</a>
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WTS DELL 2658t  
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WTS DELL st39204lc  
Oct 30 9.2g u3 low-profile 10k rpm dell fi

WTS DELL 4893e  
Oct 30 9.1g 80-pin drive dell firmware no

WTS DELL st39204lc  
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WTS DELL 010ryp  
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Nov 07 HSZ50 VER 5.2 FIRMWARE USED

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Nov 07 HSZ50 VER 5.2 FIRMWARE/70-32186-01.

WTS DIGITAL HSZ50-AF  
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WTS DIGITAL HS1CP  
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**DIGITAL EQUIPMENT CORP**

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WTS EFFICIENT NETWORKS/SIEMENS 120-5871-005  
Nov 13 EFFICIENT 5871 IDSL ROUTER EXT

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**Enterasys**

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Nov 11 RS Router Firmware

Vnetek Communications, LLC  
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WTS FUJITSU MAJ3364MP  
Oct 30 Fujitsu 36G 10K RPM Internal Non-Ho

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Oct 30 36G 10K RPM Internal Non-Hotswap dr

WTS FUJITSU maj3364mc  
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WTS FUJITSU man3367mc  
Oct 30 36.7g 10k rpm ultra3 Sun Firmware

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File 350:Derwent WPIX 1963-2002/UD,UM &UP=200272

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File 348:EUROPEAN PATENTS 1978-2002/Nov W01

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File 349:PCT FULLTEXT 1979-2002/UB=20021107,UT=20021031

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Set	Items	Description
S1	558	AU='OHASHI T' OR AU='OHASHI TADASHI'
S2	3	AU='OHASHI TADASHI C O FUJITSU LIMITED':AU='OHASHI TADASHI RAIONZUMANSHON YAMATE 102'
S3	3	S1:S2 AND FIRMWARE

3/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07103851 \*\*Image available\*\*  
COMPONENT MANAGEMENT CONTROL SYSTEM, COMPUTER- READABLE RECORDING MEDIUM  
RECORDED WITH COMPONENT MANAGEMENT CONTROL PROGRAM, AND COMPONENT  
MANAGEMENT CONTROL PROGRAM

PUB. NO.: 2001-331508 [JP 2001331508 A]  
PUBLISHED: November 30, 2001 (20011130)  
INVENTOR(s): OHASHI TADASHI  
APPLICANT(s): FUJITSU LTD  
APPL. NO.: 2001-067683 [JP 20011067683]  
FILED: March 09, 2001 (20010309)  
PRIORITY: 2000-069386 [JP 200069386], JP (Japan), March 13, 2000  
(20000313)  
INTL CLASS: G06F-017/30; G06F-009/44; G06F-012/00; G06F-015/00;  
G06F-017/60

#### ABSTRACT

PROBLEM TO BE SOLVED: To easily and accurately register, receive and refer to a component at low cost.

SOLUTION: This system is equipped with a maker server 180 which stores component information regarding all of hardware and **firmware** constituting a product, a mail server 150 which stores registration rule information on the registration of the component information on the maker server 180, and a registration system client 100 which registers the component information on the maker server 180 according to the registration rule information.

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DIALOG(R)File 347:JAPIO  
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07103787 \*\*Image available\*\*  
SERVICE PROCESSOR CONTROL SYSTEM, COMPUTER READABLE RECORDING MEDIUM HAVING  
SERVICE PROCESSOR CONTROL PROGRAM RECORDED THEREON AND SERVICE PROCESSOR  
CONTROL PROGRAM

PUB. NO.: 2001-331444 [JP 2001331444 A]  
PUBLISHED: November 30, 2001 (20011130)  
INVENTOR(s): OHASHI TADASHI  
APPLICANT(s): FUJITSU LTD  
APPL. NO.: 2001-067684 [JP 20011067684]  
FILED: March 09, 2001 (20010309)  
PRIORITY: 2000-069385 [JP 200069385], JP (Japan), March 13, 2000  
(20000313)  
INTL CLASS: G06F-015/00; G06F-009/445

#### ABSTRACT

PROBLEM TO BE SOLVED: To manage the distribution of component information with small labor and at a low cost and to improve versatility regarding the control of a service processor.

SOLUTION: This system is provided with a drawing server 30, an EC slip server 40, a program server 50 and a manual server 60 connected to the Internet for storing the component information relating to all of hardware and **firmware** constituting a product and a client 80 connected to a service processor 70 and the Internet 20 and provided with at least the console function of the service processor 70 for drawing the component information through an SVP browser 81 and making the service processor 70 perform maintenance service and console service, etc., regarding the host 90.



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06873772 \*\*Image available\*\*  
SYSTEM AND DEVICE FOR MANAGING COMPONENT AND COMPUTER READABLE RECORDING  
MEDIUM FOR RECORDING COMPONENT MANAGEMENT PROGRAM

PUB. NO.: 2001-101277 [JP 2001101277 A]  
PUBLISHED: April 13, 2001 (20010413)  
INVENTOR(s): OHASHI TADASHI  
APPLICANT(s): FUJITSU LTD  
APPL. NO.: 11-273427 [JP 99273427]  
FILED: September 27, 1999 (19990927)  
INTL CLASS: G06F-017/60; G06F-009/06; G06F-017/30

#### ABSTRACT

PROBLEM TO BE SOLVED: To improve the component version number management efficiency and the component management efficiency, to prevent a mistake in a work and also to shorten a work time.

SOLUTION: A component management system is provided with a storage device for permitting hardware and **firmware** constituting a product to be in a same management level and storing a plurality of components related to hardware and **firmware** required for the development, manufacture and inspection of the product, etc., as a component database DB1, a management server 10 for managing the component database DB1 and a reception client 40 which is connected to the management server 10 via a network N to draw out the prescribed component from the component database DB1 via the network N.

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File 350:Derwent WPIX 1963-2002/UD,UM &UP=200272

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Set	Items	Description
S1	13038	FIRMWARE OR FIRM()WARE OR EMBEDDED(3N)(CHIP? ? OR MICROCHIP? ? OR PART? ? OR ELEMENT? ? OR MODULE? ? OR HARDWARE OR SOFTWARE OR SYSTEM? ? OR PROCESSOR? ? OR MICROPROCESSOR? ?)
S2	97779	BIOS OR CMOS OR MICROCODE OR BOOTSTRAP OR PROGRAMMABLE OR PROGRAMMED
S3	11607	S2(3N)(CHIP? ? OR CHIPSET? ? OR MICROCHIP? ? OR BOARD? ? OR HARDWARE OR COMPONENT? ? OR PART? ? OR ROM? ? OR PROM? ? OR EPROM? ? OR EEPROM? ? OR SEMICONDUCT??? OR SEMI(W)CONDUCT??? OR IC OR ASIC)
S4	98782	DATABASE? ? OR DATA()BASE? ? OR REPOSITOR??? OR INVENTORY(-)MANAGEMENT OR BILL??? (1W)MATERIAL? ? OR CATALOG? ?
S5	2159456	COMPUTER? ? OR COMPUTING OR PC OR MONITOR? ? OR PRINTER? ? OR SCANNER? ? OR KEYBOARD? ? OR DRIVE OR DRIVES OR HARD() (DISK? ? OR DISC? ?) OR MODEM? ?
S6	327779	S5(5N)(COMPONENT? ? OR SUBCOMPONENT? ? OR PART? ? OR PIECE? ? OR MATERIAL? ? OR MODULE? ? OR SECTION? ? OR ELEMENT? ? OR UNIT? ? OR BUILDING()BLOCK? ? OR CONSTITUENT? ? OR ASSEMBLY OR ASSEMBLIES OR SUBASSEMBLY OR SUBASSEMBLIES)
S7	402	S1 AND S6
S8	13	S4 AND S7
S9	365	S3 AND S6
S10	8	S4 AND S9
S11	21	S8 OR S10
S12	19	S4(5N)(S1 OR S3)
S13	27	(SEARCH??? OR FIND??? OR QUER??? OR QUERY???) (5N)(S1 OR S3)
S14	44	S12:S13
S15	43	S14 NOT S11
S16	172	S6(5N)(S1 OR S3)
S17	72	S16 AND IC=G06F
S18	67	S17 NOT (S11 OR S15)

11/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07139109 \*\*Image available\*\*  
DATA INTEGRATION SYSTEM AND METHOD, AND RECORDING MEDIUM HAVING PROGRAM FOR  
DATA INTEGRATION RECORDED THEREON

PUB. NO.: 2002-007481 [JP 2002007481 A]  
PUBLISHED: January 11, 2002 (20020111)  
INVENTOR(s): TANIGAWA SHIYUNU  
YOSHIDA MINORU  
KAKOYA KENTARO  
KATO SATOSHI  
APPLICANT(s): DIGITAL ELECTRONICS CORP  
APPL. NO.: 2000-182088 [JP 2000182088]  
FILED: June 16, 2000 (20000616)  
INTL CLASS: G06F-017/40; G06F-017/30

#### ABSTRACT

PROBLEM TO BE SOLVED: To construct a **database** system capable of easily reproducing data inputted to a programmable display device.

SOLUTION: When a previously set distribution condition is satisfied, the data distribution **part** 27 of the **programmable** display device 2 distributes data inputted from an input part 24 consisting of a touch panel provided on the display part 25 of the display 2 or a bar code reader 7 to a personal computer 1. In the computer 1, the data are written successively to a **database** 16 by a **database** managing part 11b and retrieved continuously to be reproduced. Thus the **database** 16 is constructed easily and retrieval is facilitated. Furthermore, by providing a public server **part** 19 to the **computer** 1, similar retrieval can be performed by a client device 6.

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11/5/4 (Item 4 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2002 JPO & JAPIO. All rts. reserv.

06890102 \*\*Image available\*\*  
SYSTEM AND METHOD FOR COLLECTING DATA AND RECORDING MEDIUM WITH PROGRAM FOR  
DATA COLLECTION RECORDED THEREON

PUB. NO.: 2001-117611 [JP 2001117611 A]  
PUBLISHED: April 27, 2001 (20010427)  
INVENTOR(s): NAKADA YOSHIHIKO  
APPLICANT(s): DIGITAL ELECTRONICS CORP  
APPL. NO.: 11-292886 [JP 99292886]  
FILED: October 14, 1999 (19991014)  
INTL CLASS: G05B-019/05; G05B-015/02; G06F-013/00; H04L-029/06

#### ABSTRACT

PROBLEM TO BE SOLVED: To easily collect, record and preserve output data of various kinds of PLC.

SOLUTION: A communication protocol through an exclusive network 5 between a PLC 3 and a programmable display 2 is converted into a communication protocol through a common network 4 between the programmable display 2 and a personal computer 1 by using the data for protocol conversion of a conversion data storing part 2f by a data processing **part** 2a. Thus, the personal **computer** 1 can easily collect output data from the plural various kinds of PLC 3, etc. Also when a preset distribution condition is satisfied, the output data of the PLC 3 are distributed to the personal **computer** 1 by a data-distributing **part** 2g of the **programmable** display 2. In the personal computer 1, the data distributed from the different programmable displays 2, etc., under the same distribution

condition are written in lumps under each distribution condition in the table of **data base** software installed as an application part 1f by a data communication processing part 1a.

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11/5/5 (Item 5 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06873772 \*\*Image available\*\*  
SYSTEM AND DEVICE FOR MANAGING **COMPONENT** AND **COMPUTER** READABLE  
RECORDING MEDIUM FOR RECORDING **COMPONENT** MANAGEMENT PROGRAM

PUB. NO.: 2001-101277 [JP 2001101277 A]  
PUBLISHED: April 13, 2001 (20010413)  
INVENTOR(s): OHASHI TADASHI  
APPLICANT(s): FUJITSU LTD  
APPL. NO.: 11-273427 [JP 99273427]  
FILED: September 27, 1999 (19990927)  
INTL CLASS: G06F-017/60; G06F-009/06; G06F-017/30

#### ABSTRACT

PROBLEM TO BE SOLVED: To improve the component version number management efficiency and the component management efficiency, to prevent a mistake in a work and also to shorten a work time.

SOLUTION: A component management system is provided with a storage device for permitting hardware and **firmware** constituting a product to be in a same management level and storing a plurality of components related to hardware and **firmware** required for the development, manufacture and inspection of the product, etc., as a component **database** DB1, a management server 10 for managing the component **database** DB1 and a reception client 40 which is connected to the management server 10 via a network N to draw out the prescribed component from the component **database** DB1 via the network N.

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11/5/6 (Item 6 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2002 JPO & JAPIO. All rts. reserv.

04258579 \*\*Image available\*\*  
SYSTEM FOR INFORMING MASSIVE DATA IN ON-LINE SYSTEM

PUB. NO.: 05-250279 [JP 5250279 A]  
PUBLISHED: September 28, 1993 (19930928)  
INVENTOR(s): MIZOGUCHI HIROBUMI  
TAGUCHI SHOSAKU  
TAKAHASHI YUJI  
TSUTSUI KATSUMI  
EGUCHI MASARU  
SAKAMAKI KIYOSHI  
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP  
(Japan)  
TOKAI GINKOU KK [000000] (A Japanese Company or Corporation),  
JP (Japan)  
APPL. NO.: 04-046701 [JP 9246701]  
FILED: March 04, 1992 (19920304)  
INTL CLASS: [5] G06F-013/00; G06F-015/00; G06F-015/30; H04M-011/00  
JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 44.4  
(COMMUNICATION -- Telephone); 45.4 (INFORMATION PROCESSING --  
Computer Applications)  
JAPIO KEYWORD: R087 (PRECISION MACHINES -- Automatic Banking)  
JOURNAL: Section: P, Section No. 1671, Vol. 18, No. 11, Pg. 138,

January 10, 1994 (19940110)

# ABSTRACT

PURPOSE: To equalize information service by storing data generated in a basic job system in a **data base** and distributedly activating information transactions for the unit of combining a repeater installing block as the object to be informed and a terminal equipment.

CONSTITUTION: A **firmware** banking system 2 receives deposit transaction information generated in a basic job system 1, stores data in an information data file 11 and updates a transmission schedule table 8 based on a contract managing file 10. A data generation **monitor** processing **part 4 monitors** this table 8 and registers the information transaction start information of a subscriber generating data on an information transaction start information registration table 9. The table 9 preserves and manages the number of collation transactions under processing due to the relevant block terminal, the number of information transaction start and the number of information transaction end for the unit of each entry with the identification information of the objective block to be informed and the terminal equipment as a key. Therefore, the information transaction start information to be registered in the same entry is arranged equally for blocks and terminals.

11/5/12 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2002 Thomson Derwent. All rts. reserv.

014333668 \*\*Image available\*\*  
WPI Acc No: 2002-154371/200220  
Related WPI Acc No: 2001-226416; 2001-367443; 2001-625915  
XRPX Acc No: N02-117452

Method of selecting electronic components from remote database by embedding parts into software application running on user computer

Patent Assignee: CADENCE DESIGN SYSTEMS INC (CADE-N)

Inventor: PLYMALE J M; ROBERTSON W H

Number of Countries: 093 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200165423	A2	20010907	WO 2001US6155	A	20010226	200220 B
AU 200139890	A	20010912	AU 200139890	A	20010226	200220

Priority Applications (No Type Date): US 2000514674 A 20000228

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200165423 A2 E 32 G06F-017/50

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP  
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT  
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200139890 A G06F-017/50 Based on patent WO 200165423

Abstract (Basic): WO 200165423 A2

NOVELTY - Method consists in storing dynamic parts representing individual electronic components in a remote **parts database**, connecting a user **computer** to the **database** and embedding a part into an application running on the user **computer** for modelling an electronic design. **Parts** are displayed graphically, each is associated with component data items, and a set of dynamic **parts** is **embedded** into the application to generate an electronic **bill of materials** with a link to **databases**.

DETAILED DESCRIPTION - There is an INDEPENDENT CLAIM for a system for providing electronic components to users over a distributed electronic network.

USE - Method is for selecting and procuring electronic components used in circuit and chip designs.

DESCRIPTION OF DRAWING(S) - The figure shows a system for selecting and utilizing dynamic representations of electronic components.

pp; 32 DwgNo 4/6

Title Terms: METHOD; SELECT; ELECTRONIC; COMPONENT; REMOTE; **DATABASE** ;  
EMBED; PART; SOFTWARE; APPLY; RUN; USER; COMPUTER

Derwent Class: T01

International Patent Class (Main): G06F-017/50

File Segment: EPI

11/5/16 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014095142 \*\*Image available\*\*

WPI Acc No: 2001-579356/200165

XRPX Acc No: N01-431189

**Information storing system for storing information about memory module, determines unique characteristic value of each selected set of memory devices**

Patent Assignee: MICRON TECHNOLOGY INC (MICR-N)

Inventor: CHARLTON D E; OCHOA R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6289292	B1	20010911	US 97959231	A	19971028	200165 B

Priority Applications (No Type Date): US 97959231 A 19971028

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6289292	B1	14	G06F-011/00		

Abstract (Basic): US 6289292 B1

NOVELTY - A characterization value test station (50) uses the associated characteristic function stored in a **database**, which is function of relevant physical characteristics to determine unique characterization value for each memory device in a set. Each unique characterization value is linked as an identifier to information pertaining to the identifiers respective memory device which is stored in another **database**.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) Electronic module producing system;
- (b) Program storage device readable by a processor

USE - For storing information pertaining to components such as memory modules including dynamic random access memory (DRAM), synchronous dynamic random access memory (SDRAM) and **programmable** read only memory ( **PROM** ), motherboards, fax **modem**, add-on boards, interface **components**, latches, amplifiers, integrated microcircuit components and device controller boards used for producing electronic device e.g. personal computer.

ADVANTAGE - Identification of components by physical characterization is beneficial because added identification tags or marks e.g. bar codes are not required. Permits components that are to be assembled in a production process to be identified without needing to apply any physical identifying label to the component. Each identifier is determined in a relatively short period of testing and is stored in a **database** to be used as retrieval key for other information particular to the component identified by the identifier.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of memory module.

Characterization value test station (50)

pp; 14 DwgNo 4A/5

Title Terms: INFORMATION; STORAGE; SYSTEM; STORAGE; INFORMATION; MEMORY;  
MODULE; DETERMINE; UNIQUE; CHARACTERISTIC; VALUE; SELECT; SET; MEMORY;  
DEVICE

Derwent Class: T01

International Patent Class (Main): G06F-011/00

15/5/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06000090 \*\*Image available\*\*  
STORAGE MEDIUM DRIVING DEVICE, STORAGE MEDIUM AND DATA PROTECTION METHOD

PUB. NO.: 10-283190 [JP 10283190 A]  
PUBLISHED: October 23, 1998 (19981023)  
INVENTOR(s): KOTANI MASATAKE  
TORII NAOYA  
KAMATA JUN  
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 09-091132 [JP 9791132]  
FILED: April 09, 1997 (19970409)  
INTL CLASS: [6] G06F-009/445; G06F-009/06; G06F-012/14  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
45.2 (INFORMATION PROCESSING -- Memory Units)  
JAPIO KEYWORD: R102 (APPLIED ELECTRONICS -- Video Disk Recorders, VDR); R138  
(APPLIED ELECTRONICS -- Vertical Magnetic & Photomagnetic  
Recording)

#### ABSTRACT

PROBLEM TO BE SOLVED: To execute various securities without raising the manufacturing cost by searching a control program for executing a processing from a mounted storage medium at the time of judging that the control program for executing the processing is not incorporated in a resident control program.

SOLUTION: A personal computer 5 interprets a processing request 4 by the program of its own application and sends it to the processing part 8 of an MO driving device 2. When the processing request 4 is reported, the processing part 8 uses a resident firmware 9 resident in the resident firmware area 10 of the MO driving device 2 and judges whether or not a firmware for executing the processing is incorporated in the resident firmware 9. Then, at the time of judging that it is not incorporated, a **search** for **searching** the **firmware** for executing the processing from the ciphered firmwares A, B, C... stored in a set MO medium 1 is performed.

15/5/6 (Item 6 from file: 347)  
DIALOG(R)File 347:JAPIO  
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02823022 \*\*Image available\*\*  
DATA RETRIEVING SYSTEM

PUB. NO.: 01-120622 [JP 1120622 A]  
PUBLISHED: May 12, 1989 (19890512)  
INVENTOR(s): OKAMOTO TAKASHI  
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 62-278184 [JP 87278184]  
FILED: November 05, 1987 (19871105)  
INTL CLASS: [4] G06F-007/28  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
45.2 (INFORMATION PROCESSING -- Memory Units)  
JOURNAL: Section: P, Section No. 917, Vol. 13, No. 361, Pg. 113,  
August 11, 1989 (19890811)

#### ABSTRACT

PURPOSE: To shorten the data retrieving time by transforming a **data base** control system into **firmware** and at the same time evolving the data base of a disk device onto an image operating memory and retrieving data via this memory.

CONSTITUTION: The data base of a disk device 1 is evolved onto a window

memory 10 by a system program. Then a retrieving request 4 containing an interruption given from a user application 3 is sent to a graphic processing **firmware** 11 containing a **data base** control system transformed into **firmware** via an OS 7. Thus the firmware 11 performs the analysis of commands and retrieves the data base evolved onto the memory 10.

15/5/12 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014435920 \*\*Image available\*\*  
WPI Acc No: 2002-256623/200230  
XRPX Acc No: N02-198613

**Remote configuration monitoring system for industrial control system, queries hardware, software and firmware components of programmable logic controllers to determine component identifications, periodically**

Patent Assignee: SCHNEIDER AUTOMATION INC (SCHN-N)

Inventor: WISCHINSKI R H

Number of Countries: 021 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200190829	A2	20011129	WO 2001US12753	A	20010419	200230 B
AU 200155492	A	20011203	AU 200155492	A	20010419	200230

Priority Applications (No Type Date): US 2000578132 A 20000524

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200190829	A2	E	13	G05B-019/042	
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Designated States (National): AU CA

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE TR

AU 200155492	A			G05B-019/042	Based on patent WO 200190829
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Abstract (Basic): WO 200190829 A2

NOVELTY - A device identifier determines and provides **component** identifications for **programmable** logic controllers indicated in a **database** by periodically **querying** the hardware, software and **firmware** components of the controllers. A device configuration manager compares installed controllers components with components available in the database for upgrading installed controllers.

USE - For remotely monitoring preventive maintenance, machine utilization, machine troubleshooting, process diagnostics and system diagnostics of industrial control system (ICS) through internet using WAP enabled cell phone.

ADVANTAGE - Enables the vendor to learn what equipment is being used in the ICS even when the equipment is provided by another vendor.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the interaction of technical support system module with equipments and operator of the ICS.

pp; 13 DwgNo 2/2

Title Terms: REMOTE; CONFIGURATION; MONITOR; SYSTEM; INDUSTRIAL; CONTROL; SYSTEM; QUERY; HARDWARE; SOFTWARE; FIRMWARE; COMPONENT; PROGRAM; LOGIC; CONTROL; DETERMINE; COMPONENT; IDENTIFY; PERIOD

Derwent Class: T06

International Patent Class (Main): G05B-019/042

File Segment: EPI

15/5/20 (Item 11 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013714703 \*\*Image available\*\*  
WPI Acc No: 2001-198927/200120  
XRPX Acc No: N01-142775

**Product information management apparatus has search unit which searches**



predetermined hardware and firmware information of product stored in memory

Patent Assignee: ~~EJITSU LTD.~~ (FUIT )

*Same as 350*

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001022810	A	20010126	JP 99194090	A	19990708	200120 B

Priority Applications (No Type Date): JP 99194090 A 19990708

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001022810	A		10	G06F-017/50	

Abstract (Basic): JP 2001022810 A

NOVELTY - The hardware and firmware information of a product is input to hardware and firmware information input units (1a,1b), respectively. A memory (1c) stores the hardware and **firmware** information. A **search** unit (1d) **searches** preset hardware and **firmware** information from the memory.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for product information management program.

USE - Product information management apparatus.

ADVANTAGE - As the memory stores firmware and hardware information of product and the search unit **searches** the predetermined hardware and **firmware** information of a product from memory, management of firmware information and hardware information is performed simultaneously.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of component of product information management apparatus.

Input units (1a,1b)

Memory (1c)

Search unit (1d)

pp; 10 DwgNo 1/15

Title Terms: PRODUCT; INFORMATION; MANAGEMENT; APPARATUS; SEARCH; UNIT; SEARCH; PREDETERMINED; HARDWARE; FIRMWARE; INFORMATION; PRODUCT; STORAGE; MEMORY

Derwent Class: T01

International Patent Class (Main): G06F-017/50

International Patent Class (Additional): G06F-009/06

File Segment: EPI

15/5/24 (Item 15 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013235716 \*\*Image available\*\*

WPI Acc No: 2000-407590/200035

**Method for controlling the synchronization of a database management system for an embedded system having a priority-based - real-time operating system NoAbstract**

Patent Assignee: KOREA ELECTRONICS & TELECOM RES (KOEL-N); KOREA TELECOM (KOTE-N)

Inventor: CHOI W; LEE S S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 99041060	A	19990615	KR 9761591	A	19971120	200035 B

Priority Applications (No Type Date): KR 9761591 A 19971120

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 99041060	A			G06F-017/40	

Title Terms: METHOD; CONTROL; DATABASE; MANAGEMENT; SYSTEM; EMBED; SYSTEM; PRIORITY; BASED; REAL; TIME; OPERATE; SYSTEM; NOABSTRACT

Derwent Class: T01

International Patent Class (Main): G06F-017/40

File Segment: EPI

15/5/26 (Item 17 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012964697 \*\*Image available\*\*  
WPI Acc No: 2000-136548/200012  
XRPX Acc No: N00-102121

**Embedded information storing and accessing method in object oriented relational database system**

Patent Assignee: MICROSOFT CORP (MICR-N)  
Inventor: SUVER C A  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6016497	A	20000118	US 97998334	A	19971224	200012 B

Priority Applications (No Type Date): US 97998334 A 19971224

**Patent Details:**

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6016497	A	32	G06F-017/30	

Abstract (Basic): US 6016497 A

NOVELTY - Data **elements** are stored in **embedded** data column of object relational **database**. The database command such as standard SQL statement is received to access selected data element, by accessing table and column name represented in **database** command. The data **elements** stored in **embedded** data column are accessed by extension of database command as if embedded data column were separate table.

DETAILED DESCRIPTION - The object relational database comprises dictionary having table and column names. The data element comprises traversing in-memory data structure to access selected data element in embedded data column. INDEPENDENT CLAIMS are also included for the following:

- (a) embedded information storing;
- (b) accessing system and program

USE - For storing logically multi valued or hierarchical complex data in object oriented relational database system.

ADVANTAGE - Provides powerful query capabilities. Employs benefits of both relational data modeling and object oriented data modeling.

DESCRIPTION OF DRAWING(S) - The figure shows the logical table with embedded collections and embedded structures.

pp; 32 DwgNo 6/17

Title Terms: EMBED; INFORMATION; STORAGE; ACCESS; METHOD; OBJECT; ORIENT;  
RELATED; DATABASE; SYSTEM

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

15/5/32 (Item 23 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011981658 \*\*Image available\*\*  
WPI Acc No: 1998-398568/199834  
XRPX Acc No: N98-310125

**Repository apparatus for storage and retrieval of real-time embedded software - includes parent repository server storage with search device which responds to client query generator to search of software based on attributes of software**

Patent Assignee: TELOGY NETWORKS INC (TELO-N)  
Inventor: HOGAN K; SCHOLL T H; WITOWSKY W E  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5778368	A	19980707	US 96642060	A	19960503	199834 B

Priority Applications (No Type Date): US 96642060 A 19960503

Patent Details:

Patent No	Kind	Lan	Pg	Main	IPC	Filing	Notes
US 5778368	A		25	G06F-015/76			

Abstract (Basic): US 5778368 A

The repository system for storage and retrieval of real-time **embedded software** involves a parent **repository**, with a storage, and a repository client with a storage. A device generates a query to the parent repository server, and is resident on the repository client to **search** for attributes of real-time **embedded software** stored on the parent.

Real-time **embedded software** is stored on the parent **repository** server storage. A search device resident on the parent repository server responds to the client query generator to **search** for the real-time **embedded software** based on the attributes of the real-time embedded software. A multimedia display displays the results of the client query made to the parent repository server. A communications link joins the repository client and server.

ADVANTAGE - Fully characterises, evaluates, and reuses real-time embedded software that is placed or stored in repository database.

Dwg.10/11

Title Terms: REPOSITORY; APPARATUS; STORAGE; RETRIEVAL; REAL; TIME; EMBED;  
SOFTWARE; PARENT; REPOSITORY; SERVE; STORAGE; SEARCH; DEVICE; RESPOND;  
CLIENT; QUERY; GENERATOR; SEARCH; SOFTWARE; BASED; ATTRIBUTE; SOFTWARE

Derwent Class: T01

International Patent Class (Main): G06F-015/76

File Segment: EPI

15/5/34 (Item 25 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011302688 \*\*Image available\*\*

WPI Acc No: 1997-280593/199725

XRPX Acc No: N97-232535

Database **management** system embedded in operating system command -  
**has database search and maintenance device plans resource strategy to**  
**avoid deadlocks prior to executing single operating system command**

Patent Assignee: DRUDIS A (DRUD-I); SERRA B (SERR-I)

Inventor: DRUDIS A; SERRA B

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5630114	A	19970513	US 937463	A	19930122	199725 B

Priority Applications (No Type Date): US 937463 A 19930122

Patent Details:

Patent No	Kind	Lan	Pg	Main	IPC	Filing	Notes
US 5630114	A		18	G06F-017/30			

Abstract (Basic): US 5630114 A

The device includes a computer operating system directing the computer, has a database management system which includes database search and maintenance device. The database search and maintenance device plans a resource strategy to avoid deadlocks prior to executing the single operating system command. If the single operating system command is concatenated with a 'search' parameter, the database search and maintenance device searches a sorted file to locate a record having a user-specified value in any field selected by a user. If no such record is located in the sorted file, then the database search and maintenance device searches an unsorted file to locate a record having the value in the field.

ADVANTAGE - Provides relatively simple and low-cost database that uses only simple commands.

Dwg.1,2/10

· Title Terms: DATABASE; MANAGEMENT; SYSTEM; EMBED; OPERATE; SYSTEM; COMMAND;  
DATABASE; SEARCH; MAINTAIN; DEVICE; PLAN; RESOURCE; STRATEGY; AVOID;  
PRIOR; EXECUTE; SINGLE; OPERATE; SYSTEM; COMMAND  
Derwent Class: T01  
International Patent Class (Main): G06F-017/30  
File Segment: EPI

15/5/40 (Item 31 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
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003626446

WPI Acc No: 1983-H4648K/198322

XRFX Acc No: N83-097145

Firmware control system search and verify - uses operand from search  
or verification indicia and operand for set of elements for sequential  
comparison

Patent Assignee: HONEYWELL INFORM SYSTEMS INC (HONE )

Inventor: GRAESSER J D; MORGANTI V M; NEGI V S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4384343	A	19830517				198322 B

Priority Applications (No Type Date): US 81308782 A 19811005; US 7911597 A  
19790212

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4384343	A		21		

Abstract (Basic): US 4384343 A

The alphanumeric search apparatus uses search indicia stored in a first operand and elements stored in a second operand which are operated upon by a data processing system to determine by means of search or verify operations whether any of the elements included in the second operand correspond to any one of the indicia included in the first operand. The second operand may be arranged in a sequential string of elements or in an array or table of elements and a search is conducted by comparing each element sequentially with all the search indicia and by so processing the elements until a match is found.

A verify procedure is conducted by comparing each element with the search indicia to verify there is a counterpart for each search element in the list of search indicia. For a search procedure, an output is generated indicating the storage locations within their respective operands of the search indicia and the element which produced the match. For a verify procedure an output is generated indicating the first storage location of a search element that is not included in the list of search indicia.

Title Terms: FIRMWARE; CONTROL; SYSTEM; SEARCH; VERIFICATION; OPERAND;

SEARCH; VERIFICATION; INDICIA; OPERAND; SET; ELEMENT; SEQUENCE; COMPARE

Derwent Class: T01

International Patent Class (Additional): G06F-007/04

File Segment: EPI

18/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2002 JPO & JAPIO. All rts. reserv.

07163853 \*\*Image available\*\*  
INFORMATION STORAGE MEDIUM

PUB. NO.: 2002-032237 [JP 2002032237 A]  
PUBLISHED: January 31, 2002 (20020131)  
INVENTOR(s): SATO HIROTSUGU  
APPLICANT(s): RICOH CO LTD  
APPL. NO.: 2000-214334 [JP 2000214334]  
FILED: July 14, 2000 (20000714)  
INTL CLASS: G06F-011/00

#### ABSTRACT

PROBLEM TO BE SOLVED: To realize update of firmware by a simple operation without preparing a file in which the firmware for update is stored and a program for update of the firmware.

SOLUTION: Firmware update programs to make a host computer execute a firmware update function to update the **firmware** stored in a storage **part** of an optical disk **drive** are included in a program for recording optical disk. Thus, a user is enabled to update the firmware by the simple operation without separately preparing the file in which the firmware for update is stored and the program for firmware update since the **firmware** stored in the storage **part** of the optical disk **drive** is updated simply by executing the firmware update programs (S3 to S12) as a part of the program for recording the optical disk to perform a write processing to the optical disk to which addition or rewrite can be performed.

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18/5/5 (Item 5 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2002 JPO & JAPIO. All rts. reserv.

06397161 \*\*Image available\*\*  
HARD DISK CONTROL METHOD AND STORAGE MEDIUM RECORDING HARD DISK CONTROL FIRMWARE

PUB. NO.: 11-338812 [JP 11338812 A]  
PUBLISHED: December 10, 1999 (19991210)  
INVENTOR(s): SAITO SHIGEKU  
APPLICANT(s): NEC CORP  
APPL. NO.: 10-139967 [JP 98139967]  
FILED: May 21, 1998 (19980521)  
INTL CLASS: G06F-013/10 ; G06F-003/06

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a hard disk control method and a medium recording hard disk control firmware with which it is not necessary to change a **firmware** for **hard disk** control loaded on the control **part** of a **hard disk** corresponding to the specification change of the hard disk.

SOLUTION: Concerning this hard disk control method, the **firmware** in the **hard disk** control **part** has a **hard disk** control **part** 10 provided with a DKC ROM 11 describing only the contents not depending on the class of hard disk and a DKC RAM 12 describing only the contents depending on the class of hard disk and a hard disk device part 20 provided with a DKU ROM 21 describing the contents to be changed corresponding to the class of hard disk, the contents in the DKU ROM 21 of the hard disk device part 20 are read into the DKC RAM 12 of the hard disk control part 10, and a hard disk device is controlled by the hard disk control part 10.

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18/5/8 (Item 8 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06065871 \*\*Image available\*\*  
VERSION-UP METHOD FOR FIRMWARE

PUB. NO.: 11-007382 [JP 11007382 A]  
PUBLISHED: January 12, 1999 (19990112)  
INVENTOR(s): YOSHIKAWA MITSUMASA  
MATSUMURA YOICHI  
TANABE MANABU  
APPLICANT(s): FUJITSU LTD  
APPL. NO.: 09-161104 [JP 97161104]  
FILED: June 18, 1997 (19970618)  
INTL CLASS: G06F-009/06 ; G06F-012/16

#### ABSTRACT

PROBLEM TO BE SOLVED: To perform version-up without stopping a monitor/control function of a transmitter system.

SOLUTION: In a version-up method for firmware in a system provided with a transmitter TRU consisting of a hardware part HDW, a **firmware** part FMW and an upper **unit** UPU to **monitor** /control the device, two surfaces are formed by defining memory areas M0, M1 for each of an operational surface and a non-operational surface and when the version-up of the firmware is requested while control by current version firmware CVF stored in the memory area M0 of the operational surface is executed, new version firmware NVF is down-loaded from the upper unit to the memory area M1 of the non-operational surface. The firmware CVF, NVF of the current version and the new version are executed simultaneously and in parallel by a multi-task processing and the version-up is performed at timing in which both versions are synchronized.

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18/5/11 (Item 11 from file: 347)  
DIALOG(R)File 347:JAPIO  
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04290315 \*\*Image available\*\*  
PROGRAMMABLE CONTROLLER SYSTEM

PUB. NO.: 05-282015 [JP 5282015 A]  
PUBLISHED: October 29, 1993 (19931029)  
INVENTOR(s): WAZUMI MASAOKI  
KASAHARA TOSHIRO  
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 04-077249 [JP 9277249]  
FILED: March 31, 1992 (19920331)  
INTL CLASS: [5] G05B-019/05; G06F-003/12  
JAPIO CLASS: 22.3 (MACHINERY -- Control & Regulation); 45.3 (INFORMATION  
PROCESSING -- Input Output Units)  
JOURNAL: Section: P, Section No. 1687, Vol. 18, No. 70, Pg. 28,  
February 04, 1994 (19940204)

#### ABSTRACT

PURPOSE: To provide the programmable controller which is low in cost and enables the output and control of a printer by using a print-out instruction in the program of the programmable controller.

CONSTITUTION: The storage part 3 of the programmable controller 7 is provided with a printer buffer 3c and a counter 8 connected to the **printer** buffer 3c, the input/output **part** 4 of the **programmable** controller 7

and the centronics interface of the printer 5 are coupled, and the print-out instruction in the program is received to places the printer in printing operation.

18/5/16 (Item 16 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2002 JPO & JAPIO. All rts. reserv.

02894319 \*\*Image available\*\*  
CONTROL SYSTEM FOR SELECTION OF KEYBOARD

PUB. NO.: 01-191919 [JP 1191919 A]  
PUBLISHED: August 02, 1989 (19890802)  
INVENTOR(s): DEWA KOICHI  
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 63-014638 [JP 8814638]  
FILED: January 27, 1988 (19880127)  
INTL CLASS: [4] G06F-003/02 ; G06F-003/02  
JAPIO CLASS: 45.3 (INFORMATION PROCESSING -- Input Output Units)  
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers &  
Microprocessors)  
JOURNAL: Section: P, Section No. 953, Vol. 13, No. 482, Pg. 48,  
November 02, 1989 (19891102)

#### ABSTRACT

PURPOSE: To improve the universal applicability of the title control system by using a mechanism that decides automatically whether a built-in keyboard unit or an external full keyboard should be validated.

CONSTITUTION: A control system for selection of keyboards comprises a CPU 11 serving as the center of control, a ROM 12, a RAM 13, a selection circuit 14, a built-in keyboard unit 17, a keyboard controller 15, and a keyboard controller 16 which controls an external **keyboard unit** 18. Then the **firmware** detects the characteristics of the unit 18 that one or more pieces of data are always transmitted in an ON state of a power supply and produces a selection instructing signal to the circuit 14 in an ON state of the power supply. In such a constitution, an easy-to-handle man-machine interface is obtained.

18/5/17 (Item 17 from file: 347)  
DIALOG(R)File 347:JAPIO  
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02725734 \*\*Image available\*\*  
CLASSIFICATION DISPLAY DEVICE FOR FIRMWARE

PUB. NO.: 01-023334 [JP 1023334 A]  
PUBLISHED: January 26, 1989 (19890126)  
INVENTOR(s): TADAUCHI YUKIO  
APPLICANT(s): MINOLTA CAMERA CO LTD [000607] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 62-179721 [JP 87179721]  
FILED: July 17, 1987 (19870717)  
INTL CLASS: [4] G06F-009/06 ; G06F-009/24  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
29.4 (PRECISION INSTRUMENTS -- Business Machines)  
JAPIO KEYWORD: R002 (LASERS); R116 (ELECTRONIC MATERIALS -- Light Emitting Diodes, LED); R131 (INFORMATION PROCESSING -- Microcomputers & Microprocessors); R139 (INFORMATION PROCESSING -- Word Processors)  
JOURNAL: Section: P, Section No. 870, Vol. 13, No. 203, Pg. 86, May 15, 1989 (19890515)

#### ABSTRACT

PURPOSE: To easily decide the classification of firmware for an equipment

having a character form display means and applying firmware, by displaying the classification of the working firmware just for a fixed time via a switch operation.

CONSTITUTION: When a power supply switch is operated, a 2-digit sheet number display part 4 consisting of a display part 4a for 1st digit and a display part 4b for 2nd digit sets all LED display elements under the light emitting states for decision of the abnormality such as the disconnections of those display elements. Then a type code 'A2' of the **firmware** incorporated into a laser **printer** is displayed at both **parts** 4a and 4b respectively. When this display lasts for a prescribed time, the display of the part 4 is changed to '1' for control of the laser printer itself. In such a way, the classification of the working firmware is displayed for a fixed time so that the firmware type can be easily decided.

18/5/22 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2002 Thomson Derwent. All rts. reserv.

014769679 \*\*Image available\*\*  
WPI Acc No: 2002-590383/200263  
XRPX Acc No: N02-468597

**Firmware updating method for complex computer , involves determining whether system component has current level of firmware and accordingly updating firmware in background operation**

Patent Assignee: IBM CORP (IBM )  
Inventor: KEHNE K G; MEHTA C; PATEL J M; PATEL K  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020092008	A1	20020711	US 2000726290	A	20001130	200263 B

Priority Applications (No Type Date): US 2000726290 A 20001130

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020092008	A1	9	G06F-009/455	

Abstract (Basic): US 20020092008 A1

NOVELTY - A level of firmware on a system component is compared with a current level of the firmware stored on a memory. The firmware stored in the system component is updated in a background operation, when the system component does not have current level of the firmware, while the system remains available to the user for other actions.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) Computer program product storing firmware updating instructions; and

(2) Firmware updating system.

USE - For updating firmwares of complex computer used as web server in multiprocessing environment.

ADVANTAGE - Updates system firmware in a background operation, thereby allowing the user to utilize the computer for other purposes during update process.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart illustrating firmware updating process.

pp; 9 DwgNo 3/3

Title Terms: FIRMWARE; UPDATE; METHOD; COMPLEX; COMPUTER; DETERMINE; SYSTEM ; COMPONENT; CURRENT; LEVEL; FIRMWARE; ACCORD; UPDATE; FIRMWARE; BACKGROUND; OPERATE

Derwent Class: T01; U14

International Patent Class (Main): G06F-009/455

File Segment: EPI

18/5/31 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014128653      **\*\*Image available\*\***

WPI Acc No: 2001-612863/200171

XRPX Acc No: N01-457575

**Firmware download system downloads required firmware module from  
firmware library of host computer to printer using module  
information containing module name relevant to execution of driver  
program**

Patent Assignee: NEC CORP (NIDE )

Number of Countries: 001    Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001067228	A	20010316	JP 99240356	A	19990826	200171 B

Priority Applications (No Type Date): JP 99240356 A 19990826

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2001067228	A	10	G06F-009/445	

JP 2001067228 A      10 G06F-009/445

Abstract (Basic): JP 2001067228 A

NOVELTY - Download list consisting module information that contains module name relevant to the execution of a driver program is transmitted to the host **computer** (1). Required **firmware module** is downloaded from the **firmware** library (8) to the printer (4).

USE - For downloading required firmware to printer.

ADVANTAGE - Since firmware is downloaded from a host personal computer, there is no need to preserve all firmwares in ROM. Firmware is updated without performing a rewriting process of the flash memory of the printer. A user updates the firmware and adds a function without discontinuation during rewriting of a flash memory and without any failure in the apparatus.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of firmware download system. (Drawing includes non-English language text).

Host computer (1)

Printer (4)

Firmware library (8)

pp; 10 DwgNo 1/10

Title Terms: FIRMWARE; SYSTEM; REQUIRE; FIRMWARE; MODULE; FIRMWARE; LIBRARY  
; HOST; COMPUTER; PRINT; MODULE; INFORMATION; CONTAIN; MODULE; NAME;  
RELEVANT; EXECUTE; DRIVE; PROGRAM

Derwent Class: P75; T01; T04

International Patent Class (Main): G06F-009/445

International Patent Class (Additional): B41J-029/38; G06F-003/12

File Segment: EPI; EngPI

18/5/34      (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014112523

WPI Acc No: 2001-596735/200167

XRPX Acc No: N01-444913

**Method of auto scaling an embedded computer system by determining  
which additional components or modules are needed and providing these  
to the system under user control**

Patent Assignee: WIND RIVER SYSTEMS INC (WIND-N); LEVIEN R B (LEVI-I);

MOWERS A A (MOWE-I); MYERS C H (MYER-I); SCHILLE C J (SCHI-I); SHEPARD M  
(SHEP-I); TALATI M H (TALA-I)

Inventor: LEVIEN R B; MOWERS A A; MYERS C H; SCHILLE C J; SHEPARD M; TALATI  
M H

Number of Countries: 094    Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200163410	A2	20010830	WO 2001US5958	A	20010223	200167 B
US 20010037494	A1	20011101	US 2000184856	P	20000225	200168
			US 2001792473	A	20010223	

AU 200139863 A 20010903 AU 200139863 A 20010223 200202  
US 20020066075 A1 20020530 US 2000184856 P 20000225 200240  
US 2000215545 P 20000630  
US 2001765778 A 20010119

Priority Applications (No Type Date): US 2001765778 A 20010119; US  
2000184856 P 20000225; US 2000215545 P 20000630; US 2001792473 A 20010223  
Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200163410 A2 E 64 G06F-009/44

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP  
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT  
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

US 20010037494 A1 G06F-009/45 Provisional application US 2000184856

AU 200139863 A G06F-009/44 Based on patent WO 200163410

US 20020066075 A1 G06F-009/44 Provisional application US 2000184856

Provisional application US 2000215545

Abstract (Basic): WO 200163410 A2

NOVELTY - The system determines the set of symbols imported by the  
components already present in the system and determines any missing  
components which provide the imported symbols. These missing components  
are then added to the system under control of the user. The system may  
also be arranged to show to a user any components or modules that are  
no longer needed and to allow the user to remove these from the system.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for

(a) a system for adding components to a computer system

(b) a device having a medium carrying instructions for adding  
components to a computer system

USE - In embedded computer systems.

ADVANTAGE - Allows reconfiguration of embedded computer systems to  
increase their functionality.

pp; 64 DwgNo 0/18

Title Terms: METHOD; AUTO; SCALE; EMBED; COMPUTER; SYSTEM; DETERMINE; ADD;  
COMPONENT; MODULE; NEED; SYSTEM; USER; CONTROL

Derwent Class: T01

International Patent Class (Main): G06F-009/44 ; G06F-009/45

International Patent Class (Additional): G06F-009/445

File Segment: EPI

18/5/43 (Item 22 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013297579 \*\*Image available\*\*

WPI Acc No: 2000-469514/200041

XRFX Acc No: N00-350759

Information recording device e.g. magnetic disk unit in personal  
computer , updates preset firmware to updating firmware with updating  
command stored temporarily in firmware buffer

Patent Assignee: NEC CORP (NIDE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000172508	A	20000623	JP 98348945	A	19981208	200041 B

Priority Applications (No Type Date): JP 98348945 A 19981208

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 2000172508 A 5 G06F-009/445

Abstract (Basic): JP 2000172508 A

NOVELTY - Electrically erasable programmable read only memory (EEPROM) (6) stores firmware and a firmware buffer (2) temporarily stores updating command and updating firmware which is to be substituted for preset firmware. The preset firmware is updated with the updating command.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for firmware updating method.

USE - Information recording device e.g. magnetic disc unit in processing system such as personal computer, workstation.

ADVANTAGE - Since firmware to be updated and updating command are stored in firmware buffer, predetermined firmware can be updated automatically online without necessity of an operator.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of information recording device.

Firmware buffer (2)

EEPROM (6)

pp; 5 DwgNo 1/2

Title Terms: INFORMATION; RECORD; DEVICE; MAGNETIC; DISC; UNIT; PERSON;  
COMPUTER; UPDATE; PRESET; FIRMWARE; UPDATE; FIRMWARE; UPDATE; COMMAND;  
STORAGE; TEMPORARY; FIRMWARE; BUFFER

Derwent Class: T01

International Patent Class (Main): G06F-009/445

File Segment: EPI

File 348:EUROPEAN PATENTS 1978-2002/Oct W04

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File 349:PCT FULLTEXT 1979-2002/UB=20021107,UT=20021031

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Set	Items	Description
S1	18621	FIRMWARE OR FIRM()WARE OR EMBEDDED(3N)(CHIP? ? OR MICROCHIP? ? OR PART? ? OR ELEMENT? ? OR MODULE? ? OR HARDWARE OR SOFTWARE OR SYSTEM? ? OR PROCESSOR? ? OR MICROPROCESSOR? ?)
S2	119057	BIOS OR CMOS OR MICROCODE OR BOOTSTRAP OR PROGRAMMABLE OR PROGRAMMED
S3	19543	S2(3N)(CHIP? ? OR CHIPSET? ? OR MICROCHIP? ? OR BOARD? ? OR HARDWARE OR COMPONENT? ? OR PART? ? OR ROM? ? OR PROM? ? OR EPROM? ? OR EEPROM? ? OR SEMICONDUCT??? OR SEMI(W)CONDUCT??? OR IC OR ASIC)
S4	144122	DATABASE? ? OR DATA()BASE? ? OR REPOSITOR??? OR INVENTORY(-)MANAGEMENT OR BILL??? (1W)MATERIAL? ? OR CATALOG? ? OR LIBRARY???
S5	536537	COMPUTER? ? OR COMPUTING OR PC OR MONITOR? ? OR PRINTER? ? OR SCANNER? ? OR KEYBOARD? ? OR DRIVE OR DRIVES OR HARD() (DISK? ? OR DISC? ?) OR MODEM? ?
S6	151641	S5(5N)(COMPONENT? ? OR SUBCOMPONENT? ? OR PART? ? OR PIECE? ? OR MATERIAL? ? OR MODULE? ? OR SECTION? ? OR ELEMENT? ? OR UNIT? ? OR BUILDING()BLOCK? ? OR CONSTITUENT? ? OR ASSEMBLY OR ASSEMBLIES OR SUBASSEMBLY OR SUBASSEMBLIES)
S7	80	S1(S)S6(S)S4 AND IC=G06F
S8	54	S3(S)S6(S)S4 AND IC=G06F
S9	126	S7:S8
S10	388	S4(10N)(S1 OR S3)
S11	26	S10(S)S6 AND IC=G06F
S12	261	(S1 OR S3)(10N)(SEARCH??? OR FIND??? OR QUER??? OR QUERY??-?)
S13	16	S12(S)S6 AND IC=G06F
S14	38	S11 OR S13
S15	242	S4(5N)(S1 OR S3)
S16	130	S15 AND IC=G06F
S17	22	S16/TI,AB,CM
S18	101	S4(5N)S1 AND IC=G06F
S19	72	S18 NOT (S14 OR S17)
S20	29	S4(5N)S3 AND IC=G06F
S21	22	S20 NOT (S14 OR S17 OR S19)
S22	168	(S1 OR S3)(5N)(SEARCH??? OR FIND??? OR QUER??? OR QUERY???)
S23	85	S22 AND IC=G06F
S24	61	S23 NOT (S14 OR S17 OR S19 OR S21)
S25	830	(S1 OR S3)(5N)S6
S26	341	S25 AND IC=G06F
S27	37	S26/TI,AB,CM
S28	33	S27 NOT (S14 OR S17 OR S19 OR S21 OR S24)

14/5,K/7 (Item 2 from file: 349)  
DIALOG(R) File 349: PCT FULLTEXT  
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00925665 \*\*Image available\*\*

**MODULAR MICROCONTROLLERS MANAGING CPU AND DEVICES WITHOUT OPERATING SYSTEM  
MICROCONTROLEURS MODULAIRES PERMETTANT LA GESTION DE L'UNITE CENTRALE ET  
DES PERIPHERIQUES SANS SYSTEME D'EXPLOITATION**

Patent Applicant/Assignee:

DELTA SEARCH LABS INC, 400 Technology Square, Cambridge, MA 02139, US, US  
(Residence), US (Nationality)

Inventor(s):

JAFFREY Syed Kamal H, 56 Bigelow Avenue, #23, Watertown, MA 02472, US,

Legal Representative:

MIRABITO A Jason (agent), Mintz, Levin, Cohn, Ferris, Glovsky and Popeo  
PC, One Financial Center, Boston, MA 02111, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200259744 A1 20020801 (WO 0259744)

Application: WO 2002US2310 20020125 (PCT/WO US0202310)

Priority Application: US 2001770810 20010126

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU

SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-009/06

International Patent Class: G06F-013/10 ; G06F-013/12

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8929

English Abstract

A hardware/firmware layer comprising a Device Manager, an Information Manager, a Memory Manager, and a Process Manager (610, 620, 630, 640) contained in one or more semiconductor chips is disclosed. The hardware/firmware layer eliminates the need for an operating system. Each of the Managers comprises a microcontroller (612, 622, 632, 642) associated with a firmware embedded in ROM or Flash memory that contains instruction sets (614, 624, 634, 644) that cause the microcontroller to provide a designated task of device management, information management, memory management and process management. In another aspect of the invention, devices connected to the computer system are "smart devices", each device having a device microcontroller and embedded device drivers in a ROM or Flash memory. The hardware/firmware of the present invention does not need to search for available devices, provide diagnostic tests or obtain device drivers to communicate with the devices. Instead the microcontroller uses the embedded device driver to perform configuration and self diagnostic test as well as device operations. If the device is operational, device microcontroller sends an identification signal to the hardware/firmware of the CPU (202) to indicate availability of the device.

French Abstract

L'invention concerne une couche materiel/micrologiciel comprenant un gestionnaire de peripheriques, un gestionnaire de donnees, un gestionnaire de memoire, et un gestionnaire de traitement (610, 620, 630, 640) contenus dans une ou plusieurs puces semi-conductrices. Cette couche materiel/micrologiciel supprime le besoin de systeme d'exploitation. Chaque gestionnaire comprend un microcontrolleur (612, 622, 632, 642) associe a un micrologiciel integre dans une memoire ROM ou une memoire flash, qui contient des ensembles d'instructions destinees au microcontrolleur, et permettant a ce dernier d'executer la tache de

gestion de peripheriques, de gestion de donnees de gestion de memoire ou de gestion de traitement indiquee. Un autre aspect de l'invention concerne les peripheriques connectes au systeme informatique, qui sont des <= peripheriques intelligents >=. Chaque peripherique comprend un microcontroleur individuel et des pilotes de peripheriques integres, installes dans une memoire ROM ou une memoire flash. La couche materiel/micrologiciel ne requiert pas de recherche de peripheriques disponibles, d'application de tests diagnostiques, ou de recours aux pilotes de peripheriques pour la communication avec les peripheriques. Au lieu de cela, le microcontroleur du peripherique utilise un pilote de peripherique integre pour effectuer la configuration et le test d'auto-diagnostic, ainsi que les fonctions du peripherique. Si le peripherique est operationnel, le microcontroleur du peripherique envoie un signal d'identification a la couche materiel/micrologiciel de l'unite centrale (202) afin d'indiquer que le peripherique est disponible.

Legal Status (Type, Date, Text)

Publication 20020801 A1 With international search report.

Publication 20020801 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Main International Patent Class: G06F-009/06

International Patent Class: G06F-013/10 ...

... G06F-013/12

Fulltext Availability:

Detailed Description

Detailed Description

... 2. However, as will be apparent with respect to FIG. 13, modifications are made to the hardware platform layer to allow for the various hardware components and devices such as disk drives, modems, printer, video monitor to interact with the hardware/firmware layer 604. The application programs layer 506 is similar to the conventional application programs layer shown in FIG. 1 and may include application programs such as word processor, database, spread sheet, browser and so forth.

The hardware/ firmware layer 504 provides the services previously performed by an operating system kernel, discussed above. In one embodiment illustrated in FIG. 6, the hardware/firmware layer...

14/5,K/9 (Item 4 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00880924 \*\*Image available\*\*

PORTABLE OPERATING ENVIRONMENT FOR INFORMATION DEVICES

ENVIRONNEMENT D'EXPLOITATION TRANSFERABLE POUR DISPOSITIFS D'INFORMATIONS

Patent Applicant/Assignee:

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200215004 A2 20020221 (WO 0215004)

Application: WO 2001US25632 20010814 (PCT/WO US0125632)

Priority Application: US 2000225569 20000814

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD

SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: **G06F-009/00**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 19152

#### English Abstract

A client software program for use on an embedded computing device includes an operating system layer including an abstraction layer, a programming environment, and an application framework including a package manager. The client is configured to interface with a client support server including a package repository, for receiving package data for running a software package on the embedded computing device. A graphics driver includes a shape function layer and a framebuffer access macro layer. When the first drawing surface is rendered as partially overlapping the second drawing surface, a visible portion of the second drawing surface is computed as a set of rectangular clip segments. User interface component data and data used to factorize the way it is rendered are logically separated. A handwriting recognition software algorithm includes an encoding module for encoding character strokes input into an input device as integer values and a character recognition module for recognizing characters as integer units. A contention locking scheme is configured to set a light object lock on an initially unlocked object when a first thread attempts to lock the object, and to maintain the light lock on the object when a nested intra-thread lock is attempted by the first thread.

#### French Abstract

L'invention concerne un programme logiciel client utilise sur un dispositif de calcul integre. Ce programme logiciel comprend une couche de systeme d'exploitation comportant une couche d'abstraction, un environnement de programmation et un cadre d'applications dote d'un gestionnaire de logiciel. Le client est concu pour faire interface avec un serveur de support client comprenant un systeme d'archivage de logiciel destine a recevoir des donnees de logiciel en vue d'executer un logiciel sur le dispositif de calcul integre. Un pilote graphique comprend une couche de fonction de forme ainsi qu'une couche macro d'accès à la memoire d'image. Lorsque la premiere surface de dessin rendue chevauche partiellement la seconde surface de dessin, une partie visible de la seconde surface de dessin est calculee sous la forme d'un ensemble de segments rectangulaires de decoupage. Des donnees de composante d'interface utilisateur et des donnees de factorisation de rendu sont separees par voie logique. Un algorithme logiciel de reconnaissance d'écriture comprend un module de codage destine a coder des segments de caractere entres dans un dispositif d'entree en tant que valeurs entieres, ainsi qu'un module de reconnaissance de caracteres permettant de reconnaitre des caracteres en tant qu'unites entieres. Un programme de verrouillage de contention est concu pour effectuer un verrouillage leger d'un objet initialement non verrouille lorsqu'une premiere unite d'execution tente de verrouiller ledit objet, et pour maintenir le verrouillage leger de cet objet quand la premiere unite d'execution tente d'operer un verrouillage intra-unite d'execution imbrique.

Legal Status (Type, Date, Text)

Publication 20020221 A2 Without international search report and to be republished upon receipt of that report.

Examination 20021017 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: **G06F-009/00**

Fulltext Availability:

Detailed Description

# Detailed Description

... provided including a package repository module configured to communicate with the package manager for sending package data to the embedded computing device for running a **software** package on the embedded **computing** device. The package **repository module** is further configured to communicate with the package manager for sending package metadata to the embedded computing device for running the software data.

A server...

14/5,K/11 (Item 6 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00861482 \*\*Image available\*\*

**SERVICE PROVIDER FOR PROVIDING DATA, APPLICATIONS AND SERVICES TO EMBEDDED DEVICES AND FOR FACILITATING CONTROL**

**FOURNISSEUR DE SERVICES DESTINE A FOURNIR DES DONNEES, DES APPLICATIONS ET DES SERVICES A DES DISPOSITIFS INTEGRES ET A FACILITER LA COMMANDE**

Patent Applicant/Assignee:

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AUSTIN Wesley (agent), Madson & Metcalf, 15 West South Temple, Suite 900,  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200195100 A1 20011213 (WO 0195100)

Application: WO 2001US17944 20010604 (PCT/WO US0117944)

Priority Application: US 2000587929 20000606

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-009/06

International Patent Class: G06F-013/00 ; G06F-013/14 ; G06F-015/16 ;

G06F-015/46 ; G06F-017/00 ; H04L-012/28; H04L-012/16; H04L-029/06;

H04M-011/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11079

## English Abstract

A service provider (20) for embedded devices (24) is disclosed for controlling, monitoring and/or updating embedded devices (24). The service provider (20) includes a computer having communications hardware for communicating over a computer network (22). The computer also includes a storage device and a processor. The service provider (20) further includes a database (112) of embedded device information that contains information relating to a number of embedded devices (24). An embedded device communications module (130) is used by the service provider to communicate with a number of embedded devices. The service provider (20) further includes a computer network communications module (128) for communicating with computers via the computer network (22). In addition, the service provider (20) has a database interface module for accessing the information in the embedded device information database. The service provider (20) may also include an information collection



manager (118) for searching the computer network (22) and for accessing and obtaining updated information from the computer network relating to the embedded devices (24).

#### French Abstract

L'invention concerne un fournisseur de services (20) pour des dispositifs integres (24) destine a commander, controler ou actualiser des dispositifs integres (24). Le fournisseur de services (20) selon l'invention comprend un ordinateur pourvu d'un materiel de communication pour communiquer par l'intermediaire d'un reseau d'ordinateurs (22), ainsi que d'un dispositif a memoire et d'un processeur. Le fournisseur de services (20) comprend aussi une base de donnees (112) d'informations sur des dispositifs integres contenant des informations relatives a un certain nombre de dispositifs integres (24). Le fournisseur de services utilise un module de communication pour dispositifs integres (130) pour communiquer avec un certain nombre de dispositifs integres. Le fournisseur de services (20) comprend egalement un module de communication pour reseau d'ordinateurs (128) servant a communiquer avec des ordinateurs par l'intermediaire du reseau d'ordinateurs (22). En outre, le fournisseur de services (20) dispose d'un module d'interface de base de donnees pour acceder aux informations dans la base de donnees d'informations sur les dispositifs integres. Il peut egalement comporter un gestionnaire de collecte d'informations (118) permettant d'executer des recherches dans le reseau d'ordinateurs (22) et de consulter et d'obtenir des informations actualisees concernant les dispositifs integres (24) a partir du reseau d'ordinateurs.

Legal Status (Type, Date, Text)

Publication 20011213 A1 With international search report.

Examination 20020516 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-009/06

International Patent Class: G06F-013/00 ...

... G06F-013/14 ...

... G06F-015/16 ...

... G06F-015/46 ...

... G06F-017/00

Fulltext Availability:

Detailed Description

Claims

#### Detailed Description

... at least one storage device and at least one processor. The service provider 20 further includes a database of embedded device information and/or a **database** of service information obtained from the computer network 22. An **embedded** device communications **module** is used by the service provider 20 to communicate with a number of w0 01/95100 PCT/US01/17944 embedded devices 24. The service provider 20 further includes a **computer** network communications **module** for communicating with **computers** via the computer network 22. In addition, the service provider 20 has a database interface module for accessing the information in the database(s).

The...

#### Claim

... hardware for communicating

over a computer network, the computer also including a storage device; a database of service information obtained from the computer network, the **database** being available to the embedded devices; an **embedded** device communications **module** for communicating with the embedded

devices;  
a **computer** network communications **module** for communicating with  
**computers** via  
the **computer** network; and  
a database interface **module** for accessing the service information in  
the service information database.

2 The provider of claim 1 further comprising an information collection  
manager for searching the...

...database being available to the computer network;  
w0 01/95100 PCT/US01/17944  
an embedded device communications module for communicating with the  
embedded  
devices;  
a **computer** network communications **module** for communicating with.  
**computers** via  
the **computer** network; and  
a database interface **module** for accessing the information in the  
embedded device information **database**.

14 The provider of claim 13 wherein the **embedded** device  
communications **module** establishes electronic communication with an  
embedded device and receives at least one message from the embedded  
device that includes an embedded device identifier.

15 The...devices comprises:  
1 0 a computer, the computer including communications hardware for  
communicating over a computer network, the computer also including  
a storage device;  
a **database**;  
an **embedded** device communications **module** for communicating with the  
1 5 embedded devices;  
a **computer** network communications **module** for communicating with  
**computers** via the **computer** network; and a database interface **module**  
for accessing the information in the database; and a central provider in  
electronic communication with the plurality of service providers  
for embedded devices, the central...

14/5,K/13 (Item 8 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00852807 \*\*Image available\*\*

**AUTOMATIC CONFIGURATION OF EQUIPMENT AND SOFTWARE**

**CONFIGURATION AUTOMATIQUE D'EQUIPEMENT ET DE LOGICIEL**

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Inventor(s):

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Legal Representative:

HOWISON Gregory M (et al) (agent), Howison, Chauza, Thoma, Handley &  
Arnott, L.L.P., P.O. Box 741715, Dallas, TX 75374-1715, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200186435 A2 20011115 (WO 0186435)

Application: WO 2001US40718 20010510 (PCT/WO US0140718)

Priority Application: US 2000568148 20000510; US 2000568150 20000510; US  
2000568293 20000510

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM  
Main International Patent Class: G06F-009/445  
Publication Language: English  
Filing Language: English  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 33957

#### English Abstract

An architecture for automatically configuring equipment. A piece of equipment connected externally to a user PC has one or more machine-resolvable codes (MRCs) associated therewith. The piece of equipment receives configuration information from a remote location disposed on the network in response to reading a select one of the one or more MRCs with a reader. Configuration information associated with the select one of the one or more MRCs is transmitted from the remote location to the piece of equipment via the user PC, and the piece of equipment is then configured according to the configuration information.

#### French Abstract

L'invention concerne une architecture permettant de configurer automatiquement un équipement. Une partie d'équipement reliée par l'extérieur à un PC utilisateur comporte un ou plusieurs codes lui étant associés et pouvant être résolus par une machine (MRC). La partie d'équipement reçoit des informations de configuration d'un emplacement distant situé sur le réseau après lecture d'un MRC au moyen d'un lecteur. Les informations de configuration associées au MRC sont transmises de l'emplacement distant à une partie d'équipement par l'intermédiaire du PC utilisateur, et la partie d'équipement est alors configurée conformément aux informations de configuration.

#### Legal Status (Type, Date, Text)

Publication 20011115 A2 Without international search report and to be republished upon receipt of that report.

Main International Patent Class: G06F-009/445

Fulltext Availability:  
Detailed Description

#### Detailed Description

... process ends.

Referring now to FIGURE 29, there is illustrated an alternative embodiment where the MRC code containing the transaction information is located on the **computer COMPONENT** or peripheral itself. In this particular embodiment, the user scans an MRC 1 0 2900 (similar to MRC 1606) located on the component, which may...

...VRS 2500 using the VRS database 2502 to obtain the network address of the associated VWS 2504. Information relevant to the version of the latest **firmware** or device drivers are then obtained from the VWS **database** 2506, as described hereinabove, and returned to the user PC 302 to inform the user of the latest versions of both the firmware and device ...

14/5,K/28 (Item 23 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00566589 \*\*Image available\*\*

**SYSTEM AND METHOD FOR INSTALLING AN AUDITABLE SECURE NETWORK**  
**SYSTEME ET PROCEDURE PERMETTANT D'INSTALLER UN RESEAU FIABLE ET VERIFIABLE**

Patent Applicant/Assignee:

ANGEL SECURE NETWORKS INC,

Inventor(s):

SMITH Benjamin H,

SMITH Fred H,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200029962 A1 20000525 (WO 0029962)  
Application: WO 99US27138 19991116 (PCT/WO US9927138)  
Priority Application: US 98108566 19981116; US 98108868 19981118; US  
99121959 19990225  
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT  
UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD  
RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF  
CG CI CM GA GN GW ML MR NE SN TD TG  
Main International Patent Class: G06F-013/00  
Publication Language: English  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 23761

#### English Abstract

A system and method for generating and remotely installing a private secure and auditable network is provided. Node identification, link, and application information is input into a template (610). A generator (620) generates components (642, 648, 652, 658, 662, 668) using the information in the template (610) and the components are remotely installed using an installation server (630). The components include agent modules (642, 652, 662) which are each installed at predetermined target site (640, 650, 660, 670) and establish communication with the installation server (630) to facilitate the download of other components, including application software and configuration files. Each node can only be installed once and is specific to a predetermined target site (640, 650, 660, 670). For each link, a unique pair of keys is generated in a form which is not human readable, each key corresponds to a different direction of communication over the link. Data transmitted between nodes is encrypted using the public-private key pairs. At least one monitor node (772) manages the security of the network, strobes keys, and may take nodes out of the network in the event of a security violation.

#### French Abstract

L'invention concerne un systeme et un procede permettant de realiser et d'installer a distance un reseau prive fiable et verifiable. L'information relative a l'identification des noeuds, aux liaisons et aux applications est introduite dans un gabarit (610). Un generateur fournit des composantes (620) en utilisant l'information du gabarit (610), et les composantes sont teleinstallees au moyen d'un serveur d'installation (630). Les composantes comprennent des modules d'agent (642, 652, 662) installes chacun en un site cible predetermine (640, 650, 660, 670), qui permettent d'etablir des communications avec le serveur d'installation (630), de maniere a faciliter le telechargement des autres composantes, y compris le logiciel d'application et les fichiers de configuration. Chaque noeud, qui peut etre installe une seule fois, est specifique a un site cible predetermine (640, 650, 660, 670). Pour chaque liaison, une paire unique de cles est etablie sous une forme non lisible par l'homme. Chaque cle correspond a un sens de communication different sur la liaison. Les donnees transmises entre les noeuds sont chiffrees au moyen des paires de cles publiques-privées. Au moins un noeud de controle (772) assure la securite du reseau, echantillonne les cles et peut eventuellement retirer des noeuds du reseau en cas de violation de la securite.

Main International Patent Class: G06F-013/00  
Fulltext Availability:  
Detailed Description

#### Detailed Description

... a database of software applications and constraints associated therewith. In the case of commercial distribution of the software application, the server module also maintains a **database** that includes

billing information.

The agent **module** can be **embedded** in more than one type of software application, and is actuatable by the remote computer to initiate installation of the software application on the remote **computer**. Upon initiation, the agent **module** electrically communicates with the server module which selectively enables the installation. In the case of a commercial distribution of the software over the Internet, for...

14/5,K/33 (Item 28 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00416624 \*\*Image available\*\*

**SYSTEM AND METHOD FOR DISTRIBUTING SOFTWARE OVER A NETWORK**  
**SYSTEME ET PROCEDE PERMETTANT DE DISTRIBUER UN LOGICIEL PAR UN RESEAU**

Patent Applicant/Assignee:

BEN SMITH INC,  
SMITH Fred Hewitt,  
SMITH Benjamin Hewitt,

Inventor(s):

SMITH Fred Hewitt,  
SMITH Benjamin Hewitt,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9807085 A1 19980219

Application: WO 97US11548 19970813 (PCT/WO US9711548)

Priority Application: US 96689767 19960813

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW

MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN GH KE LS

MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR

IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Main International Patent Class: G06F-001/00

International Patent Class: G06F-09:445

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 7527

English Abstract

A system and method is disclosed for distributing, registering and purchasing software applications and other digital information over a network. Each software application is embedded with an agent module which communicates with a remote server module in a server attached to the network. The server module interacts with the user that is requesting installation of the software application and upon verification of billing or other constraints, the server module enables the agent module to proceed with installation. Subsequent to installation, the agent module monitors the server module and informs the user if an update to the software application is available.

French Abstract

Système et procédé permettant de distribuer, d'enregistrer et d'acheter des applications logicielles et d'autres informations numériques par le biais d'un réseau. Chaque application logicielle est intégrée dans un module agent qui communique avec un module de serveur à distance situé dans un serveur attaché au réseau. Ledit module de serveur interagit avec l'utilisateur qui demande l'installation de l'application logicielle et après vérification de la facturation et d'autres contraintes, le module de serveur permet au module agent d'exécuter l'installation. Après installation, le module agent surveille le module de serveur et informe l'utilisateur si une mise à jour de l'application logicielle est disponible.

Main International Patent Class: G06F-001/00

International Patent Class: G06F-09:445

Fulltext Availability:  
Detailed Description

#### Detailed Description

... I 0 of software applications and constraints associated therewith. In the case of commercial distribution of the software application, the server module also maintains a **database** that includes billing information.

The agent **module** can be **embedded** in more than one type of software application, and is actuatable by the remote computer to initiate installation of the software application 1 5 on the remote **computer**. Upon initiation, the agent **module** electrically communicates with the server module which selectively enables the installation. In the case of a commercial distribution of the software over the Internet, for...

14/5,K/34 (Item 29 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00367136 \*\*Image available\*\*

#### METHOD FOR VERIFYING THE CONFIGURATION OF A COMPUTER SYSTEM PROCEDE DE VERIFICATION DE LA CONFIGURATION D'UN SYSTEME INFORMATIQUE

Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION,  
PROBST Jurgen,

Inventor(s):

PROBST Jurgen,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9707463 A1 19970227

Application: WO 95EP3186 19950811 (PCT/WO EP9503186)

Priority Application: WO 95EP3186 19950811

Designated States: JP US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: **G06F-012/14**

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 4725

#### English Abstract

The invention relates to a method for verifying encrypted data being expressive of a configuration of a computer system, said computer system or a component thereof having an identifier, said method comprising the steps of encoding said data by an encoding method using said identifier as a key; encrypting said encoded data by an encryption method using a private key. For the decryption of the data a public key is used, preferably according to the RSA crypto system. The invention may also be used to enable functional characteristics of a computer system selectively.

#### French Abstract

La presente invention concerne un procede de verification de donnees cryptees representant la configuration d'un systeme informatique, ce dernier ou un de ses elements comportant un identificateur. Ce procede consiste a coder les donnees a l'aide d'un procede de codage utilisant l'identificateur comme cle, puis a crypter les donnees codees a l'aide d'un procede de cryptage utilisant une cle privree. On utilise ensuite une cle publique pour effectuer le decryptage des donnees, lequel se fait de preference selon le cryptosysteme RSA. Cette invention peut egalement servir a activer de maniere selective les caracteristiques fonctionnelles d'un systeme informatique.

Main International Patent Class: **G06F-012/14**

Fulltext Availability:

Detailed Description

#### Detailed Description

... functional characteristics as such is known from US-A-5  
365 587\*

In order to circumvent the method for verifying of a  
configuration of a **computer** system a third **party** could  
analyze the **microcode** which serves to carry out this  
method and **find** a way to bypass the corresponding  
portions of the microcode, This can be prevented if the  
microcode is also protected against tampering, This can  
be...

14/5,K/38 (Item 33 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00128236

**HIERARCHICAL KNOWLEDGE SYSTEM**  
**SYSTEME DE CONNAISSANCES HIERARCHIQUE**

Patent Applicant/Assignee:

TEKNOLOGY INC,

Inventor(s):

BENNETT James S,

LARK Jay S,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8600735 A1 19860130

Application: WO 85US1092 19850610 (PCT/WO US8501092)

Priority Application: US 84817 19840709

Designated States: AT BE CH DE FR GB IT JP LU NL SE

Main International Patent Class: **G06F-015/24**

International Patent Class: **G06F-15:46** ; B23P-21:00

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 32306

English Abstract

A knowledge system has a hierarchical knowledge base (14) comprising a functional decomposition (22) of a set of elements (24) into subsets (41-46) over a plurality of hierarchical levels (40), a plurality of predefined functions or conditions (16) of the elements (24) within the subsets (41-46) of a plurality of the hierarchical levels, and a predefined set of operations to perform on a user-defined set of elements responsive to the functional knowledge base. Preferably, the knowledge base (14) is defined declaratively by assigning parent sets to offspring subsets to define the hierarchy (22), by indicating the conditions (16) of the subsets which satisfy the predefined functions and by writing task blocks (23) in an imperative language defining the sequence of operations to perform on the user-defined set of elements. Preferably the operations include matching (120), configuring (130) and expanding (150) the user-defined set of elements into the predefined subsets of individual elements and evaluating (140) the predefined functions, and the operations are executed recursively. In a specific embodiment the elements are available components for a system or item of manufacture (30), and the subsets of elements are sub-assemblies (32-39) or functionally related components. The predefined functions define condition-action constraints (16) to insure that the sub-assemblies (32-39) have compatible components.

French Abstract

Un systeme de connaissances possede une base de connaissances hierarchique (14) comprenant une decomposition fonctionnelle (22) d'un ensemble d'elements (24) en sous-ensembles (41-46) sur une pluralite de niveaux hierarchiques (40), une pluralite de fonctions ou conditions predefinies (16), des elements (24) dans les sous-ensembles (41-46) d'une pluralite de niveaux hierarchiques, et un ensemble predefini d'operations a effectuer sur un ensemble d'elements defini par l'utilisateur sensibles a la base de connaissance fonctionnelle. De preference, la base de connaissance (14) est ouvertement finie en affectant des ensembles

parents a des sous-ensembles de descendance pour definir la hierarchie (22), en indiquant les conditions (16) des sous-ensembles qui satisfont les fonctions predefinies et en ecrivant des blocs de tache (23) dans un langage imperatif definissant la sequence d'operation a effectuer sur l'ensemble d'elements defini par l'utilisateur. De preference, les operations comprennent la correspondance (120), la configuration (130) et l'expansion (150) de l'ensemble d'elements defini par l'utilisateur dans les sous-ensembles definis d'elements individuels et l'evaluation (140) des fonctions predefinies, les operations etant executees de maniere recursive. Dans un mode specifique de realisation, les elements sont des elements disponibles pour un systeme ou un article de fabrication (30), et les sous-ensembles ou sous-groupes d'elements sont des sous-ensembles (32-39) ou des composants en relation fonctionnelle. Les fonctions predefinies definissent des contraintes de condition-action (16) pour s'assurer que les sous-ensembles (32-39) possedent des composants compatibles.

Main International Patent Class: G06F-015/24

International Patent Class: G06F-15:46 ...

Fulltext Availability:

Detailed Description

Detailed Description

```
... MAINFRAMEeTB MAINFRAME ()
(* jsb: 4-Aug-83 23:07")
(CONFIGURE 'PROCESSOR (FIND 'ALL 'CCS f(IMPLEMENTS
PROCESSOR)))
(CONFIGURE fMEMORY (FIND IALL lCCS '(IMPLEMENTS MEMORY)))
(CONFIGURE 'ISU ( FIND fall #CCS '(IMPLEMENTS ISU)))
(CONFIGURE ' FIRMWARE ( FIND 'ALL fCCS '(IMPLEMENTS
FIRMWARE )))
(CONFIGURE IO ( FIND 'ALL 'CCS '(IMPLEMENTS IO)))
(CONFIGURE 'PLENUM ( FIND 'ALL lCCS '(IMPLEMENTS PLENUM)))
(CONFIGURE 'POWER-SUPPLY (FIND fall 'CCS '(IMPLEMENTS
POWER-SUPPLY)))
(DEFTASKBLOCK MEMORYsTB MEMORY
(* isb: " 7-AUG-83 20:28")
(CHECK fCONTENTS)
(EXPAND...FIND 'ALL 'CCS '(IMPLEMENTS REST)))
(CHECK 'POWER)
(CHECK lPIBS)
(EXPAND* '(AK FT KT))
(CHECK 'EFFECTIVITY)
(CHECK 'PHASE-OUT))
APPENDIX II (C)
KNOWLEDGE BASE FOR M1234 COMPUTER
PARTS CATALOG
XTEST-BSS definition)
(DEFINSTANCE XTEST-BSS BSS
SET.OF XTESTKB
FILED.ON XTESTBX
ELEMENTS (M1234))
(DEFCLASS M1234 (PRODUCT*ID)
(METAClass BS
DESCR "The M1234...CT MP*POWER
SUPPLY*CT PLUS5 M1234*PIBS*CT1
M1234*PIBS*CT2
(DEFCLASS AT-LEAST-ONE-FT.CT (CTI)
(METAClass WARN-ON-SUCCESS*CT
BINeTYPES (ISU FIRMWARE )
STATEMENT ((COUNT ( FIND fall lCCS v(ISA FT)))
IS ZERO)
MESSAGE ("The customer must order some part that
implements It (SAND CURRENTsBIN
'GET*TRANSLATION)
this order is
incorrect...
```



17/5,K/5 (Item 5 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2002 European Patent Office. All rts. reserv.

00297148

**System for designing intercommunication networks.**  
**System zum Entwurf von Interkommunikationsnetzwerken.**  
**Systeme pour concevoir des reseaux d'intercommunication.**  
PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,  
Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

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Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 304865 A2 890301 (Basic)  
EP 304865 A3 910306  
EP 304865 B1 931208

APPLICATION (CC, No, Date): EP 88113693 880823;

PRIORITY (CC, No, Date): US 89201 870824

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-015/60; G06F-015/40;

CITED REFERENCES (EP A):

ELECTRONIQUE INDUSTRIELLE, vol. 15, no. 120 - new serie, February 1987,  
pages 49-53, Paris, FR; R. KALOCSAI: "Cr ation d'une interface entre un  
SGBD relationnel et un environnement de CAO"  
IBM TECHNICAL DISCLOSURE BULLETIN, vol. 28, no. 3, August 1985, pages  
942-947, New York, US; "Data base security/authorization mechanisms"  
IEEE TRANSACTIONS ON SOFTWARE ENGINEERING, vol. SE-13, no. 2, February  
1987, pages 129-141, IEEE, New York, US; D.E. DENNING et al.: "Views  
for multilevel database security"  
PROCEEDINGS OF THE IEEE INTERNATIONAL CONFERENCE ON CIRCUITS AND  
COMPUTERS, ICCS '80, Port Chester, New York, 1st - 3rd October 1980,  
vol. 1, pages 282-285, IEEE, New York, US; D.P. MAKRIS: "CADAR: A cable  
design and routing system";

ABSTRACT EP 304865 A2

A system for designing an intercommunciation network among a plurality  
of devices. The system includes a device for storing rules to meet design  
requirements and a mechanism connected to the device for storing rules in  
order to revise the rules dynamically. Also provided is a device for  
storing data and a mechanism connected to the device for storing data in  
order to revise the data. A requestor has the ability to access all rules  
and to revise a portion of the data. Moreover, a designer has the ability  
to access all rules and to revise another portion of the data, which  
portion has at least one subportion that cannot be revised by the  
requestor.

ABSTRACT WORD COUNT: 118

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 890301 A2 Published application (Alwith Search Report  
;A2without Search Report)  
Examination: 890816 A2 Date of filing of request for examination:  
890619  
Search Report: 910306 A3 Separate publication of the European or  
International search report  
Change: 910522 A2 Representative (change)  
Examination: 930414 A2 Date of despatch of first examination report:  
930225  
Grant: 931208 B1 Granted patent  
Change: 940914 B1 Representative (change)  
Oppn None: 941130 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	974
CLAIMS B	(German)	EPBBF1	940
CLAIMS B	(French)	EPBBF1	1043
SPEC B	(English)	EPBBF1	19154
Total word count - document A			0
Total word count - document B			22111
Total word count - documents A + B			22111

...CLAIMS one of the claims 1 to 17 wherein said rules storage means comprises a default values file.

19. A system for designing an intercommunication network among a plurality of devices in accordance with at least one of the claims 1 to 18 comprising:

- a) means for storing software embedded rules in a first database to meet design requirements;
- b) means for storing non-embedded rules in a second database (444);
- c) data processing means operatively connected to said software embedded rules storage...

17/5,K/7 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00922137 \*\*Image available\*\*

#### METHODS AND APPARATUS FOR DEEP EMBEDDED SOFTWARE DEVELOPMENT

#### PROCEDES ET DISPOSITIF POUR DEVELOPPEMENT DE LOGICIEL A INTEGRATION PROFONDE

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US, US (Residence), US (Nationality), (For all designated states  
except: US)

Patent Applicant/Inventor:

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, (Designated only for: US)

KHOO Kiak Wei, 33 Union Square #226, Union City, CA 94587, US, US  
(Residence), (Designated only for: US)

Legal Representative:

BEULICK John S (et al) (agent), Armstrong Teasdale LLP, Suite 2600, One  
Metropolitan Square, St. Louis, MO 63102, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200256173 A1 20020718 (WO 0256173)

Application: WO 2002US426 20020109 (PCT/WO US0200426)

Priority Application: US 2001757831 20010110

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-009/44

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6670

#### English Abstract

One embodiment of the present invention is a method for producing deep embedded software (14) suitable for a target processor (22). The method includes steps of: authoring a behavioral model from a specification; authoring a structural model using the behavioral model; authoring a

logical model using the structural model; and authoring a physical model using the logical model.

#### French Abstract

Dans un mode de realisation, la presente invention concerne un procede destine a produire un logiciel a integration profonde (14) adapte a un processeur cible (22). Ce procede consiste a creer un modele comportemental a partir d'une specification, a creer un modele structural au moyen de ce modele comportemental, a creer un modele logique a l'aide du modele structural, puis a creer un modele physique au moyen dudit modele logique.

#### Legal Status (Type, Date, Text)

Publication 20020718 A1 With international search report.

Publication 20020718 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

#### Fulltext Availability:

Claims

#### Claim

... in accordance with Claim 3 wherein said step of translating the behavioral model into a structural model using an architecturedependent description utilizes a pre-existing database containing embedded microprocessor or DSP core architecture information.

9 A method in accordance with Claim 3 further comprising the steps of producing test results using the structural model...

17/5,K/12 (Item 7 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00857190 \*\*Image available\*\*

**A NETWORK DEVICE FOR SUPPORTING MULTIPLE UPPER LAYER NETWORK PROTOCOLS OVER A SINGLE NETWORK CONNECTION**

**DISPOSITIF DE RESEAU COMPATIBLE AVEC PLUSIEURS PROTOCOLES DE RESEAU A COUCHE SUPERIEURE VIA UNE SEULE CONNEXION RESEAU**

Patent Applicant/Assignee:

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US (Residence), US (Nationality)

Inventor(s):

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MADSEN Jonathon D, 34 Park Avenue Extn., Arlington, MA 02474, US,  
PROVENCHER Roland T, 28 Richman Road, Hudson, NH 03051, US,  
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MANOR Larry B, 15 Cross Road, Londonderry, NH 03053, US,

Legal Representative:

ENGELLENNER Thomas J (et al) (agent), Nutter, McClennen & Fish, LLP, One International Place, Boston, MA 02110-2699, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200190843 A2-A3 20011129 (WO 0190843)

Application: WO 2001US15867 20010516 (PCT/WO US0115867)

Priority Application: US 2000574343 20000520; US 2000574341 20000520; US 2000574440 20000520; US 2000588398 20000606; US 2000591193 20000609; US 2000593034 20000613; US 2000596055 20000616; US 2000613940 20000711; US 2000616477 20000714; US 2000625101 20000724; US 2000633675 20000807; US

2000637800 20000811; US 2000653700 20000831; US 2000656123 20000906; US  
2000663947 20000918; US 2000669364 20000926; US 2000687191 20001012; US  
2000703856 20001101; US 2000711054 20001109; US 2000718224 20001121; US  
2001756936 20010109; US 2001777468 20010205; US 2001789665 20010221; US  
2001803783 20010312; US 2001832436 20010410

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE  
SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-013/00

International Patent Class: G06F-017/30; G06F-001/18; G06F-011/30;

G06F-012/14; G06F-003/14; H04L-012/56; H04M-001/10; H04M-007/00;

H04M-003/00; H01J-003/14

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 210510

#### English Abstract

The present invention provides a network device with at least one physical interface or port (44,68) that is capable of transferring network packets including data organized into one or more upper layer network protocols. Network packets are received by the port (44,68) and a port subsystem in accordance with a physical layer network protocol and transferred to forwarding subsystems within the network device in accordance with the upper layer protocols into which the network packets data has been organized. Network packets including data organized in accordance with ATM are then transferred to one or more ATM forwarding subsystems, network packets including data organized in accordance with MPLS are transferred to one or more MPLS forwarding subsystems, and network packets including data organized in accordance with IP are transferred to one or more IP forwarding subsystems.

#### French Abstract

L'invention concerne un dispositif de reseau comportant au moins une interface ou port physique pouvant transferer des paquets de reseau contenant des donnees organisees en un ou plusieurs protocoles reseau a couche superieure (par exemple, ATM, MPLS, IP, Frame Relay, Voice, Circuit Emulation). Ledit port peut etre connecte a une annexe de reseau afin de permettre que le dispositif de reseau puisse transferer des paquets de reseau avec d'autres dispositifs de reseau. Des paquets de reseau sont recus par le port et un sous-systeme de port conforme a un protocole de reseau a couche physique, puis transferees vers des sous-systemes de reexpedition a l'interieur du dispositif de reseau conformes aux protocoles a couche superieure dans lesquels les donnees de paquets de reseau ont ete organisees. Par exemple, les donnees organisees conformement a ATM via SONET, MPLS via SONET et IP via SONET peuvent etre transferees via une annexe de reseau vers un port du dispositif de reseau. Les paquets de reseau contenant des donnees organisees conformement a ATM sont ensuite transferees vers un ou plusieurs sous-systemes de reexpedition ATM et les paquets de reseau contenant des donnees organisees conformement a IP sont transferees sur un ou plusieurs sous-systemes de reexpedition IP. Pour une efficacite accrue, ce dispositif de reseau permet a l'administrateur de reseau de n'ajouter que le nombre et les types de sous-systemes de reexpedition necessaires pour repondre au service de reseau souscrit pour chaque protocole de reseau a couche. Par ailleurs, ce dispositif de reseau peut necessiter moins d'interfaces physiques que les dispositifs de reseau anterieurs.

Legal Status (Type, Date, Text)

Publication 20011129 A2 Without international search report and to be republished upon receipt of that report.

Fulltext Availability:  
Claims

Claim

... first main timing signal and a first embedded timing signal, wherein the second timing reference signal comprises a second main timing signal and a second **embedded** timing signal, and wherein the first central timing subsystem further receives the second timing reference signal and the second central timing subsystem further receives the...

17/5,K/17 (Item 12 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00526269

**EMBEDDED NETWORK MANAGEMENT SYSTEM**  
**SYSTEME INCORPORE DE GESTION DE RESEAU**

Patent Applicant/Assignee:

BARBER-COLEMAN COMPANY,

Inventor(s):

ADAMS Robert A,  
ALLGOOD Oattie E,  
SAUNDERS Andrew T,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9957621 A2 19991111

Application: WO 99US9650 19990503 (PCT/WO US9909650)

Priority Application: US 9872794 19980505

Designated States: CA AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: G06F

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 12389

English Abstract

A network management **system** includes an **embedded** node, having network **database** and communications elements, which is coupled locally on an ECHELON network. This local coupling provides a relatively high bandwidth connection to accommodate relatively high traffic volume between the network database and nodes for improved system performance relative to prior art configurations. Locally coupling the network database to the network eliminates the need to tunnel various messages needed to effect a network service when using a tiered architecture common in the HVAC industry. The communications elements include com ports adapted to couple the embedded node to a workstation via a conventional network, and to an ECHELON network.

French Abstract

Ce systeme de gestion de reseau comprend un noeud incorpore, lequel comporte une base de donnees de reseau ainsi que des elements de communication et est couple localement a un reseau ECHELON. Ce couplage local permet d'obtenir une connexion a largeur de bande relativement grande servant a accueillir un volume de trafic relativement eleve entre la base de donnees du reseau et des noeuds, ameliorant ainsi les performances du systeme par rapport aux agencements existants. Le couplage local de la base de donnees du reseau au reseau ECHELON supprime le passage par passerelle de divers messages necessaires a l'execution d'un service de reseau, lors de l'emploi d'une architecture a etages, comme c'est le cas dans l'industrie de la climatisation. Les elements de communication comprennent des ports de communication concus pour coupler le noeud incorpore a une station de travail, via un reseau classique, ainsi qu'a un reseau ECHELON.

English Abstract

- A network management **system** includes an **embedded** node, having network **database** and communications elements, which is coupled locally on an ECHELON network. This local coupling provides a relatively high bandwidth connection to accommodate relatively high traffic...

19/5,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01276249

**Graphical user interface**

**Graphische Benutzeroberfläche**

**Interface utilisateur graphique**

**PATENT ASSIGNEE:**

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Cedex 15, (FR), (Applicant designated States: all)

**INVENTOR:**

Nguyen van Huong, Emile, c/o Canal+ Technologies Societe Anonyme, 34  
Place Raoul Dautry 75516 Paris Cdx 15, (FR)

**LEGAL REPRESENTATIVE:**

Cozens, Paul Dennis et al (72971), Mathys & Squire 100 Grays Inn Road,  
London WC1X 8AL, (GB)

PATENT (CC, No, Kind, Date): EP 1098244 A2 010509 (Basic)

EP 1098244 A3 010613

APPLICATION (CC, No, Date): EP 2000300832 000203;

PRIORITY (CC, No, Date): EP 99402721 991102

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-009/44 ; G06F-003/033

**ABSTRACT EP 1098244 A3**

A method of displaying a group of graphical objects in a graphical user interface whereby the group comprises a plurality of graphical objects which are linked together with graphical link elements. The graphical objects, taken together with the link elements, form a linked chain. The method allows for the selective display of sub-chains of graphical objects, the sub-chains representing a branch from a linked chain of graphical objects.

ABSTRACT WORD COUNT: 69

**NOTE:**

Figure number on first page: 6A

**LEGAL STATUS (Type, Pub Date, Kind, Text):**

Application: 010509 A2 Published application without search report

Search Report: 010613 A3 Separate publication of the search report

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
----------------	----------	--------	------------

CLAIMS A	(English)	200119	922
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SPEC A	(English)	200119	29586
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Total word count - document A	30508
-------------------------------	-------

Total word count - document B	0
-------------------------------	---

Total word count - documents A + B	30508
------------------------------------	-------

INTERNATIONAL PATENT CLASS: G06F-009/44 ...

... G06F-003/033

...SPECIFICATION in C language used by the engine 4008. These include data manipulation such as compression, expansion or comparison of data structures, line drawing, etc. The library 4006 also includes information about firmware in the receiver/decoder 13, such as hardware and software version numbers and available RAM space, and a function used when downloading a new device...

19/5,K/35 (Item 16 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00871892

**WEB-BASED SECURED METHOD AND SYSTEM FOR COLLABORATIVE INVENTIONS CREATION**

PROCEDE ET SYSTEME SECURISES FAISANT INTERVENIR L'INTERNET POUR LA  
REALISATION D'INVENTIONS EN COLLABORATION

Patent Applicant/Assignee:

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10504, US, US (Residence), US (Nationality), (For all designated states  
except: MC)

COMPAGNIE IBM FRANCE, Tour Descartes, 2, avenue Gambetta, F-92066 Paris  
La Defense Cedex, FR, FR (Residence), FR (Nationality), (Designated  
only for: MC)

Inventor(s):

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200205150 A2 20020117 (WO 0205150)

Application: WO 2001EP7354 20010627 (PCT/WO EP0107354)

Priority Application: US 2000615351 20000712

Designated States: AU BR CA CN CZ HU IL IN JP KR MX PL RU SG VN

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Main International Patent Class: G06F-017/60

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11162

English Abstract

French Abstract

Legal Status (Type, Date, Text)

Publication 20020117 A2 With declaration under Article 17(2)(a); without  
abstract; title not checked by the International  
Searching Authority.

Examination 20020214 Request for preliminary examination prior to end of  
19th month from priority date

Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

Detailed Description

... end of the spectrum, all of the servers and databases  
discussed below could be resident on one mainframe computer.

However much of each server or **database** is implemented in  
software, **firmware**, or hardware is also open to many  
variations, as is well known in the art.

Furthermore, the terms 'network' and 'computer' are used in  
the...

19/5,K/66 (Item 47 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00421026 \*\*Image available\*\*

A DIGITAL INFORMATION LIBRARY AND DELIVERY SYSTEM

BIBLIOTHEQUE DE DONNEES NUMERIQUES ET SYSTEME DE SORTIE

Patent Applicant/Assignee:

AUDIBLE INC,



Inventor(s):

KATZ Donald R,  
LAU Edwin J,  
MOTT Timothy,  
BRENNEMAN Scott A,  
CHE-MING JUN Benjamin,  
HONG-YEN PAI Samuel,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9811487 A1 19980319

Application: WO 97US16184 19970912 (PCT/WO US9716184)

Priority Application: US 96710114 19960912

Designated States: AL AM AT AT AU AZ BA BB BG BR BY CA CH CN CU CZ CZ DE DE

DK DK EE EE ES FI FI GB GE GH HU ID IL IS JP KE KG KP KR KZ LC LK LR LS

LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SK SL TJ TM

TR TT UA UG UZ VN YU ZW GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ

TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM

GA GN ML MR NE SN TD TG

Main International Patent Class: G06F-013/00

International Patent Class: H04M-11:00

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11463

English Abstract

A computer network based digital information library system employing authentication and encryption protocols for the secure transfer of digital information library programs to a client computer system (214) and a mobile digital information playback device (212) removably connectable to the client computer system. The present invention is a computer network based library and information delivery system for accessing and obtaining selected digital information files. The library and information delivery system comprises: 1) a library server (260) having a plurality of digital information files; 2) a client computer system (214) coupled to the library server (260) over a network (240); and 3) a mobile device (212) removably connectable to the client computer system (214), the client computer system (214) including logic for requesting a download of a selected one or more of the digital information files from the library server (260), the client computer system (214) further including logic for downloading the selected one or more of the digital information files to the mobile device (212).

French Abstract

Système de bibliothèque de données numériques sur réseau informatique, utilisant des protocoles d'authentification et de chiffrement pour assurer le transfert protégé des programmes de bibliothèques numériques vers un système informatique client (214) et un dispositif mobile de lecture des données numériques (212) pouvant être connecté à ce système de manière réversible. L'invention concerne une bibliothèque sur un réseau informatique, et le système de sortie permettant l'accès aux fichiers de données numériques demandées et leur obtention. La bibliothèque et le système de sortie comprennent: 1) un serveur de bibliothèque (260) ayant une pluralité de fichiers de données numériques; 2) un système informatique client (214) relié au serveur de bibliothèque (260) par un réseau (240); et 3) un dispositif mobile (212) pouvant être connecté de manière réversible au système informatique client (214), ce système (214) ayant des moyens logiques qui permettent de demander le téléchargement d'un ou de plusieurs fichiers de données numériques depuis le serveur de bibliothèque (260), et aussi des moyens logiques qui permettent de télécharger ce ou ces fichiers dans le dispositif mobile (212).

Main International Patent Class: G06F-013/00

Fulltext Availability:

Detailed Description

Detailed Description

... to the Client Cgm

@puter Sys

- The client browser software 219 of client computer system 214 operates in cooperation with library management software 261 of **library** server 260 and the **firmware** resident

24/5,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2002 European Patent Office. All rts. reserv.

01113069

**Optimized virtual memory management for dynamic data types**  
**Optimierte virtuelle Speicherverwaltung für dynamische Datentypen**  
**Gestion de memoire virtuelle optimise pour des types de donnees dynamique**  
PATENT ASSIGNEE:

INTERUNIVERSITAIR MICROELEKTRONICA CENTRUM VZW, (1021501), Kapeldreef 75,  
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INVENTOR:

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Verkest, Diederik, Graaf Henri Cornetlaan 1, 2950 Kapellen, (BE)

LEGAL REPRESENTATIVE:

Bird, William Edward et al (62355), Bird Goen & Co., Termerestraat 1,  
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PATENT (CC, No, Kind, Date): EP 974908 A2 000126 (Basic)

APPLICATION (CC, No, Date): EP 99202435 990723;

PRIORITY (CC, No, Date): US 94043 P 980724

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-012/10

ABSTRACT EP 974908 A2

The present invention proposes effective solutions for the design of Virtual Memory Management for applications with dynamic data types in an **embedded** (HW or SW) **processor** context.

A structured **search** space for VMM mechanisms with orthogonal decision trees is presented. Based on said representation a systematic power exploration methodology is proposed that takes into account characteristics of the applications to prune the search space and guide the choices of a VMM for data dominated applications.

A parameterizable model, called Flexible Pools, is proposed. This model limits the exploration of the Virtual Memory organization considerably without limiting the optimization possibilities.

ABSTRACT WORD COUNT: 100

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 20000126 A2 Published application without search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200004	1926
SPEC A	(English)	200004	15215
Total word count - document A			17141
Total word count - document B			0
Total word count - documents A + B			17141

INTERNATIONAL PATENT CLASS: G06F-012/10

...ABSTRACT A2

The present invention proposes effective solutions for the design of Virtual Memory Management for applications with dynamic data types in an **embedded** (HW or SW) **processor** context.

A structured **search** space for VMM mechanisms with orthogonal decision trees is presented. Based on said representation a systematic power exploration methodology is proposed that takes into account...

24/5,K/3 (Item 3 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01096830

A method for protecting embedded system software and embedded system  
Verfahren zum Schutz von eingebetteter Systemsoftware und eingebettetes  
System

Methode de protection de logiciel systeme incorpore et systeme incorpore  
PATENT ASSIGNEE:

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(Applicant designated States: all)

INVENTOR:

Valli, Tapio, It. Rantakatu 46 C 57, 20810 Turku, (FI)

LEGAL REPRESENTATIVE:

Kupiainen, Juhani (81942), c/o Oulun Patenttitoimisto, Berggren Oy Ab,  
Teknologiantie 14 D, 90570 Oulu, (FI)

PATENT (CC, No, Kind, Date): EP 962850 A2 991208 (Basic)

APPLICATION (CC, No, Date): EP 99660086 990524;

PRIORITY (CC, No, Date): FI 981232 980601

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-001/00

ABSTRACT EP 962850 A2

The invention pertains to a software protection method that **finds** particular utility in **embedded systems**. The protection is based on authentication carried out entirely by means of hardware. A system includes a security circuit integrated on the same microcircuit with a processor. As the system is started, the security circuit reads (404) from the program memory certain portions of the program code and calculates (405) in accordance with a certain algorithm one or more identifiers. Secret code stored in the security circuit is used as operands in the calculation. The identifiers calculated are compared (406) to correct ones and system use is enabled (408) only if the identifiers match. For further protection it is possible to use a program memory circuit which has a component-specific identification code and to check (403) and use as operand (405) said identification code. The security circuit may also be used to decrypt an entirely encrypted program. The method makes the misuse of embedded system software considerably more difficult than in known systems. In addition, compared to software-based authentication, the protection uses less system resources.

ABSTRACT WORD COUNT: 181

NOTE:

Figure number on first page: 4

LEGAL STATUS (Type, Pub Date, Kind, Text):

Change: 020306 A2 Legal representative(s) changed 20020115  
Application: 991208 A2 Published application without search report  
Assignee: 020313 A2 Transfer of rights to new applicant: Nokia  
Corporation (3988870) Keilalahdentie 4 02150  
Espoo FI

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9949	400
SPEC A	(English)	9949	2078
Total word count - document A			2478
Total word count - document B			0
Total word count - documents A + B			2478

INTERNATIONAL PATENT CLASS: G06F-001/00

...ABSTRACT A2

The invention pertains to a software protection method that **finds** particular utility in **embedded systems**. The protection is based on authentication carried out entirely by means of hardware. A system includes a security circuit integrated on the same microcircuit with...

DIALOG(R) File 348:EUROPEAN PATENTS  
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00995313

**Searching of documents with multiple element types**

**Durchsuchen von Dokumenten mit mehreren Elementtypen**

**Rechercher dans des documents avec des types d'elements multiples**

PATENT ASSIGNEE:

Adobe Systems Incorporated, (1120815), 345 Park Avenue, San Jose,  
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INVENTOR:

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Kraus, William, 80 Wylvale Avenue, Moss Beach, California 94038, (US)

LEGAL REPRESENTATIVE:

Wombwell, Francis et al (46021), Potts, Kerr & Co. 15, Hamilton Square,  
Birkenhead Merseyside L41 6BR, (GB)

PATENT (CC, No, Kind, Date): EP 899665 A2 990303 (Basic)

EP 899665 A3 010502

APPLICATION (CC, No, Date): EP 98306174 980803;

PRIORITY (CC, No, Date): US 906811 970806

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/24 ; G06F-017/21

ABSTRACT EP 899665 A2

An apparatus and a method perform search operations on a document having nested elements of varying types. The apparatus finds in the document an element which is capable of containing nested elements of one or more varying types. The apparatus can also replace the found element with a substitute element, which is also capable of containing nested elements of one or more varying types. The types of elements include texts, images, animation, and sound clips. For each element, a matching function and a find function are provided. The matching function associated with one element determines if a target element matches itself based on predetermined search criteria. The find function associated with one element searches for a match of a target element within itself. The find function of one element can in turn invoke **find** functions associated with **elements embedded** within itself in carrying out the search on the target element.

ABSTRACT WORD COUNT: 151

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Change: 010502 A2 International Patent Classification changed:  
20010315

Application: 990303 A2 Published application (A1with Search Report  
;A2without Search Report)

Withdrawal: 020911 A2 Date application deemed withdrawn: 20011103

Search Report: 010502 A3 Separate publication of the search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9909	744
SPEC A	(English)	9909	5013
Total word count - document A			5757
Total word count - document B			0
Total word count - documents A + B			5757

INTERNATIONAL PATENT CLASS: G06F-017/24 ...

... G06F-017/21

...ABSTRACT function associated with one element searches for a match of a target element within itself. The find function of one element can in turn invoke **find** functions associated with **elements embedded** within

- ...further comprising instructions to provide a matching function and a find function for each element, the find function capable of invoking a second element to **search** for a matching **element embedded** within the second **element**.
20. The software of claim 17, wherein the matching function and the find function apply recursive descent processes.
21. The software of claim 17, further...

24/5,K/32 (Item 13 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00818584 \*\*Image available\*\*

**A MEMORY DEVICE SEARCH SYSTEM AND METHOD**

**SYSTEME ET PROCEDE DE RECHERCHE DE DISPOSITIF MEMOIRE**

Patent Applicant/Assignee:

GIGABUS INC, 1917 Ocaso Camino, Fremont, CA 94539, US, US (Residence), US  
(Nationality)

Inventor(s):

SHERMAN David L, 1917 Ocaso Camino, Fremont, CA 94539, US,

Legal Representative:

LOHSE Timothy W (agent), Gray Cary Ware & Freidenrich LLP, 400 Hamilton  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200152068 A1 20010719 (WO 0152068)

Application: WO 2001US930 20010112 (PCT/WO US0100930)

Priority Application: US 2000483206 20000114

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK

DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR

LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ

TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: **G06F-012/00**

International Patent Class: **G06F-007/06**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 10120

**English Abstract**

A search system and method is provided that may be implemented in a content addressable memory (CAM) (20) using various different memory technologies including SRAMs, DRAMs or **Embedded** DRAMs. The **search system** increases the density and efficiency of the CAM by using a search tree (24) to reduce the total number of entries that must be matched against the key. The CAM further includes a main data memory (26) and an address map and overflow memory (28).

**French Abstract**

L'invention concerne un systeme et un procede de recherche pouvant etre implementes dans une memoire adressable par le contenu (CAM) (20) au moyen de differentes technologies memoire telles que des memoires vives statiques (SRAM), des memoires vives dynamiques (DRAM) ou des memoires vives dynamiques integrees. Ledit systeme de recherche permet d'augmenter la densite et l'efficacite de la memoire adressable par le contenu au moyen d'un arbre de recherche (24) afin de reduire le nombre total d'entrees devant etre examinees par rapport a la cle. La memoire adressable par le contenu comporte egalement une memoire de donnees principale (26), une carte d'adresse, et une memoire de trop-plein (28).

Legal Status (Type, Date, Text)

Publication 20010719 A1 With international search report.  
Examination 20011025 Request for preliminary examination prior to end of  
19th month from priority date

Main International Patent Class: **G06F-012/00**  
International Patent Class: **G06F-007/06**  
Fulltext Availability:  
Detailed Description

English Abstract

...system and method is provided that may be implemented in a content addressable memory (CAM) (20) using various different memory technologies including SRAMs, DRAMs or **Embedded** DRAMs. The **search system** increases the density and efficiency of the CAM by using a search tree (24) to reduce the total number of entries that must be matched...

Detailed Description

... typically known as Embedded Dram) may be used. Thus, the invention 1 5 may be implemented using various different memory technologies including DRAM, SRAM or **Embedded** DRAM.

The **search system** and method in accordance with the invention permits a very large memory (suitably arranged as described below) to be addressed as a random access memory...

24/5,K/34 (Item 15 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00813192 \*\*Image available\*\*

**FIRMWARE MECHANISM FOR CORRECTING SOFT ERRORS**  
**MECANISME DE MICROLOGICIEL PERMETTANT DE CORRIGER DES ERREURS LOGIQUES**

Patent Applicant/Assignee:

INTEL CORPORATION, 2200 Mission College Boulevard, Santa Clara, CA 95052,  
US, US (Residence), US (Nationality), (For all designated states  
except: US)

Patent Applicant/Inventor:

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Legal Representative:

MALLIE Michael J (et al) (agent), Blakely, Sokoloff, Taylor & Zafman LLP,  
12400 Wilshire Boulevard, 7th Floor, Los Angeles, CA 90025, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200146806 A1 20010628 (WO 0146806)  
Application: WO 2000US41079 20001004 (PCT/WO US0041079)  
Priority Application: US 99469963 19991221

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG  
SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: **G06F-011/16**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8855

English Abstract

A computer system includes processor having dual execution cores and a non-volatile memory that stores an error recovery routine. The processor's execution cores operate in lock step when the processor is in a redundant execution mode, and they operate independently when the

processor is in a split execution mode. The error recovery routine is invoked when the processor detects a soft error while operating in the redundant execution mode. The error recovery routine switches the processor to split execution mode. In split mode, each execution core saves uncorrupted processor state data to a designated memory location and updates any corrupted data with corresponding processor state data from the other execution core. The error recovery routine returns the processor to redundant mode, initializes each execution core with the recovered processor state data, and returns control of the processor to the program thread that was executing when the soft error was detected.

#### French Abstract

L'invention concerne un systeme informatique, comprenant un processeur a deux noyaux d'execution et une memoire non volatile qui stocke une routine de recuperation d'erreur. Les noyaux d'execution du processeur fonctionnent en phase verrouillee lorsque ledit processeur est en mode d'execution redondant, et ils fonctionnent independamment lorsque ce processeur est en mode d'execution dissocie. On appelle la routine de recuperation d'erreur lorsque le processeur detecte une erreur logique, au cours d'un fonctionnement en mode d'execution redondant. Ladite routine de recuperation d'erreur commute le processeur vers le mode d'execution dissocie. En mode dissocie, chaque noyau d'execution sauvegarde des donnees d'etat de processeur non alterees dans un emplacement de memoire designe, et met a jour les donnees alterees a l'aide de donnees d'etat de processeur correspondantes, a partir de l'autre noyau d'execution. La routine de recuperation d'erreur renvoie le processeur au mode redondant, initialise chaque noyau d'execution a l'aide des donnees d'etat de processeur recuperees, et renvoie la commande du processeur a l'unite d'execution de programme qui a ete executee lors de la detection de l'erreur logique.

Legal Status (Type, Date, Text)

Publication 20010628 A1 With international search report.

Examination 20011213 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-011/16

Fulltext Availability:

Detailed Description

#### Detailed Description

... MR. NE, SN, TD, TG). ance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published.

- With international search report.

#### FIRMWARE MECHANISM FOR CORRECTING SOFT ERRORS

Background of the Invention

Technical Field The present invention relates to microprocessors and, in particular, to microprocessors capable of operating...

24/5,K/35 (Item 16 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00796196 \*\*Image available\*\*

#### INFORMATION ACCESS SYSTEM

#### SYSTEME D'ACCES AUX INFORMATIONS

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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Legal Representative:

HARRIS Ian Richard (agent), D Young & Co, 21 New Fetter Lane, London EC4A 1DA, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200129704 A2-A3 20010426 (WO 0129704)

Application: WO 2000GB3981 20001017 (PCT/WO GB0003981)

Priority Application: GB 9924964 19991021

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

International Patent Class: G06F-017/60 ; H04L-029/12

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 10785

English Abstract

For facilitating access to information relating to a plurality of entities via a computer network, a network server system allocates a unique alphanumeric-coded identifier to each entity for which information is retrievable. Data linking each unique alphanumeric-coded identifier to at least one network location at which information relating to the corresponding entity is stored in the network server system. The network server system responding to a query from a client including a said unique alphanumeric-coded identifier to provide the client with the linking data for addressing the information relating to the entity corresponding to said unique alphanumeric-coded identifier. By providing that the system both allocates the unique alphanumeric identifiers and administers the routing of information in response to queries from a client, reliable location of the information relating to an entity (e.g., a product, service, etc.) can be achieved. Moreover, the use of an alphanumeric identifier means that the identifier can be kept short. This in turn enables easy entry of the identifier and makes it easier to remember a particular identifier. The same unique alphanumeric identifier can be used as an e-mail address to facilitate the sending of an e-mail to at least one address associated with an entity.

French Abstract

Pour faciliter l'accès aux informations relatives à plusieurs entités à travers un réseau informatique, un système de serveur de réseau attribue un identificateur unique à codage alphanumérique à chaque entité à partir de laquelle des informations peuvent être récupérées. Le procédé de l'invention comprend, d'une part, la liaison par les données de chaque identificateur unique à codage alphanumérique avec au moins un emplacement dans le réseau dans lequel sont stockées les informations relatives à l'unité correspondante dans le système de serveur de réseau et, autre part, la réponse du système de serveur de réseau à une interrogation provenant d'un client qui comprend cet identificateur unique à codage alphanumérique, et ce pour fournir au client les données de liaison pour lui permettre de s'adresser aux informations relatives à chaque unité correspondante audit identificateur unique à codage alphanumérique. On assure une localisation fiable des informations relatives à une unité (p.ex., un produit, un service, etc.) en faisant en sorte que le système attribue les identificateurs alphanumériques uniques et administre à la fois le routage des informations en réponse aux interrogations d'un client. En outre, l'utilisation d'un identificateur alphanumérique permet de raccourcir l'identificateur, ce qui permet à son tour de faciliter l'entrée de l'utilisateur et la mémorisation d'un identificateur particulier. Le même identificateur alphanumérique unique peut être utilisé comme une adresse de courrier électronique pour

faciliter l'envoi de messages electroniques a une au moins des adresses associees a une entite.

Legal Status (Type, Date, Text)

Publication 20010426 A2 Without international search report and to be republished upon receipt of that report.

Search Rpt 20020502 Late publication of international search report

Republication 20020502 A3 With international search report.

Main International Patent Class: G06F-017/30

International Patent Class: G06F-017/60 ...

Fulltext Availability:

Claims

Claim

... comprising:

recordincr in a page at the network server, which pacre is referenced by a client query that includes the unique alphanumeric-coded identifier as **part** of an address, **embedded** code operable to **query** the data linking each unique alphanumeric-coded identifier to at least one network location at which information relating to the corresponding purchasable entity is stored...

...lt@

providing in a page at the network server, which page is referenced by a client query that includes the unique alphanumeric-coded identifier as **part** of an address, **embedded** code operable to **query** the data linking each unique alphanumeric-coded identifier to at least one network location at which information relating to the corresponding purchasable entity is stored...to provide in a page at the network server, which pacre is referenced by a client query that includes the unique alphanumeric-coded identifier as **part** of an address, **embedded** code operable to **query** the data linking each unique alphanumeric-coded identifier to at least one network location at which information relating to the corresponding purchasable entity is stored for...

24/5,K/60 (Item 41 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00294024 \*\*Image available\*\*

**DATABASE SEARCH SUMMARY WITH USER DETERMINED CHARACTERISTICS**

**SYNTHESE D'EXPLORATION DE BASES DE DONNEES A CARACTERISTIQUES DETERMINEES PAR L'UTILISATEUR**

Patent Applicant/Assignee:

TELTECH RESOURCE NETWORK CORPORATION,

Inventor(s):

THOMSON William K,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9512173 A2 19950504

Application: WO 94US11629 19941028 (PCT/WO US9411629)

Priority Application: US 93144767 19931028

Designated States: CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: G06F-017/30

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 7467

English Abstract

An information storage, searching and retrieval system for large (gigabytes) domains of archived textual data. The system includes multiple query generation processes, a search process, and a presentation of search results that is sorted by category or type and that may be customized based on the professional discipline (or analogous personal characteristic of the user), thereby reducing the amount of time and cost required to retrieve relevant results.

#### French Abstract

L'invention concerne un systeme de stockage, de recherche et d'extraction d'informations pour de vastes (gigaoctets) domaines de donnees de textes archivees. Ce systeme comprend plusieurs processus de generation d'interrogations, un processus de recherche, et une presentation des resultats de recherches qui sont tries par categorie ou par type. En outre, ces derniers peuvent etre personnalises en fonction de la categorie professionnelle (ou de caracteristiques personnelles analogues de l'utilisateur), ce qui permet de reduire le temps requis et les couts associes a l'extraction des resultats recherches.

Main International Patent Class: **G06F-017/30**

Fulltext Availability:

Detailed Description

#### Detailed Description

... If the user selects (by entering the command "SE I" or an equivalent command) the first meaning presented, i.e., "acquired immune deficiency syndrome" the **system** automatically executes an **embedded** Boolean **search** strategy such as "(acquired immunodeficiency syndrome!) or (acquired immune deficiency syndrome!) or ("AIDS" not w/10 hearing! or beauty or retention! or visual! or computer ...

File 8: Ei Compendex(R) 1970-2002/Nov W1  
(c) 2002 Elsevier Eng. Info. Inc

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File 233: Internet & Personal Comp. Abs. 1981-2002/Oct  
(c) 2002 Info. Today Inc.

File 94: JICST-EPlus 1985-2002/Sep W1  
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File 111: TGG Natl. Newspaper Index(SM) 1979-2002/Nov 11  
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File 483: Newspaper Abs Daily 1986-2002/Nov 13  
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File 144: Pascal 1973-2002/Nov W2  
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File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info

File 34: SciSearch(R) Cited Ref Sci 1990-2002/Nov W2  
(c) 2002 Inst for Sci Info

File 99: Wilson Appl. Sci & Tech Abs 1983-2002/Sep  
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File 583: Gale Group Globalbase(TM) 1986-2002/Nov 14  
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File 266: FEDRIP 2002/Sep  
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File 95: TEME-Technology & Management 1989-2002/Nov W1  
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File 62: SPIN(R) 1975-2002/Oct W1  
(c) 2002 American Institute of Physics

File 438: Library Literature 1984-2002/Sep  
(c) 2002 The HW Wilson Co

Set	Items	Description
S1	37305	FIRMWARE OR FIRM()WARE OR EMBEDDED(3N) (CHIP? ? OR MICROCHIP? ? OR PART? ? OR ELEMENT? ? OR MODULE? ? OR HARDWARE OR SOFTWARE OR SYSTEM? ? OR PROCESSOR? ? OR MICROPROCESSOR? ?)
S2	363872	BIOS OR CMOS OR MICROCODE OR BOOTSTRAP OR PROGRAMMABLE OR - PROGRAMMED
S3	33245	S2(3N) (CHIP? ? OR CHIPSET? ? OR MICROCHIP? ? OR BOARD? ? OR HARDWARE OR COMPONENT? ? OR PART? ? OR ROM? ? OR PROM? ? OR - EPROM? ? OR EEPROM? ? OR SEMICONDUCT??? OR SEMI(W)CONDUCT??? - OR IC OR ASIC)
S4	1273229	DATABASE? ? OR DATA()BASE? ? OR REPOSITOR??? OR INVENTORY(-)MANAGEMENT OR BILL??? (1W) MATERIAL? ? OR CATALOG? ? OR LIBRARY???
S5	5618682	COMPUTER? ? OR COMPUTING OR PC OR MONITOR? ? OR PRINTER? ? OR SCANNER? ? OR KEYBOARD? ? OR DRIVE OR DRIVES OR HARD() (DISK? ? OR DISC? ?) OR MODEM? ?
S6	232071	S5(5N) (COMPONENT? ? OR SUBCOMPONENT? ? OR PART? ? OR PIECE? ? OR MATERIAL? ? OR MODULE? ? OR SECTION? ? OR ELEMENT? ? OR UNIT? ? OR BUILDING()BLOCK? ? OR CONSTITUENT? ? OR ASSEMBLY OR ASSEMBLIES OR SUBASSEMBLY OR SUBASSEMBLIES)
S7	117	(S1 OR S3) AND S4 AND S6
S8	16	(S1 OR S3) (5N) S4 AND S6
S9	11	(S1 OR S3) (5N) S6 AND S4
S10	26	S8:S9
S11	22	RD (unique items)
S12	2776	S4(5N) S6
S13	25	S12 AND (S1 OR S3)

S14	19	RD (unique items)
S15	13	S14 NOT S11
S16	322	S1(5N)S4
S17	130	S3(5N)S4
S18	26	S4(5N)FIRMWARE
S19	19	RD (unique items)
S20	16716	EMBEDDED() (CHIP? ? OR MICROCHIP? ? OR SOFTWARE OR SYSTEM? - ?)
S21	123	S4(5N)S20
S22	91	RD (unique items)
S23	41	S22 NOT PY=2000:2002

11/5/4 (Item 4 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
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04502292 E.I. No: EIP96093335683

**Title: Knowledge- embedded database system for composite material selection**

Author: Zhao, Jianzhao; Hoa, S.V.; Xiao, X.

Corporate Source: Concordia Univ, Montreal, Que, Can

Conference Title: Proceedings of the 1996 5th International Conference on Computer Aided Design in Composite Material Technology

Conference Location: Udine, Italy Conference Date: 199607

E.I. Conference No.: 45312

Source: Computer Aided Design in Composite Material Technology - International Conference 1996. Computational Mechanics Publ, Southampton, Engl. p 207-219

Publication Year: 1996

CODEN: 85PMA6

Language: English

Document Type: CA; (Conference Article) Treatment: A; (Applications); T; (Theoretical)

Journal Announcement: 9611W2

**Abstract:** This paper presents a knowledge- embedded database system for composite material selection. The main purpose to develop this system is to provide engineering designers, whether experienced or not with composite materials, a tool in decision making in selecting composite materials. Presently, this knowledge- embedded database system includes four functions: BROWES DATA, SEARCH DATA, EDIT DATA and SELECT MATERIALS. The search for materials can be done by specifying windows of mechanical properties, physical properties, chemical properties etc. 'SELECT MATERIALS' enables the designer to make decision for selecting composite materials or selecting suitable reinforcements and matrix materials to develop new composites according to the required mechanical properties and/or the expected performance for the given service conditions. Most of the data on composite materials are collected directly from the manufacturers. The design and material selection criteria used in this system come from the design guidelines, handbooks and previous case studies in literature. The database system is developed on the platform of the PARADOX for WINDOWS. Taking advantages of PARADOX for WINDOWS's features, the user interface of this database system is highly graphical and user friendly. This database system can be used either as a stand-alone system on a personal computer or as a multi-user system on a network. Examples demonstrating the use of this database system are given in the paper. (Author abstract) 7 Refs.

**Descriptors:** Composite materials ; Computer applications; Knowledge based systems; Database systems; Decision making; Mechanical properties; Physical properties; Graphical user interfaces; Personal computers; Multiprocessing systems

**Identifiers:** Knowledge embedded database system ; Browes data; Search data; Edit data; Select materials; Stand alone system

**Classification Codes:**

723.4.1 (Expert Systems)

723.5 (Computer Applications); 723.4 (Artificial Intelligence); 723.3 (Database Systems); 912.2 (Management); 931.2 (Physical Properties of Gases, Liquids & Solids)

415 (Metals, Wood & Other Structural Materials); 723 (Computer Software); 912 (Industrial Engineering & Management); 931 (Applied Physics)

41 (CONSTRUCTION MATERIALS); 72 (COMPUTERS & DATA PROCESSING); 91 (ENGINEERING MANAGEMENT); 93 (ENGINEERING PHYSICS)

11/5/6 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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6742416 INSPEC Abstract Number: C2000-12-6120-002

**Title: A scalable, cost-effective, and flexible disk system using**

**high-performance embedded-processors**

Author(s): Tomita, A.; Watanabe, N.; Takamoto, Y.; Inohara, S.; Maciel, F.; Odawara, H.; Sugie, M.

Author Affiliation: Central Res. Lab., Hitachi Ltd., Tokyo, Japan

Conference Title: Proceedings 2000 International Conference on Parallel Processing p.317-26

Editor(s): Lilja, D.J.

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 2000 Country of Publication: USA xx+590 pp.

ISBN: 0 7695 0768 9 Material Identity Number: XX-2000-02223

U.S. Copyright Clearance Center Code: 0 7695 0768 9/2000/\$10.00

Conference Title: Proceedings of the 2000 International Conference on Parallel Processing

Conference Sponsor: Int. Assoc. Comput. & Commun. (IACC)

Conference Date: 21-24 Aug. 2000 Conference Location: Toronto, Ont., Canada

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: As a scalable, cost-effective, and flexible solution for data-intensive systems, we are exploring active-network-storage (ANS), which is an array of ANS disk drives. The ANS drive improves flexibility by using a modular software design; that is, users can specify functions of the ANS drive by loading/unloading the corresponding modules on it. To keep the ANS drive cost-effective, users are allowed to choose whether native code modules or platform-independent Java-bytecode modules are executed on the drive. We forecast that a current high-performance embedded-processor is powerful enough to enable this modular design to be implemented and to provide a scalable, cost-effective, and flexible ANS system. We have confirmed our forecast by conducting an experiment with an ANS drive prototype with a 200 MHz embedded - processor running database sequential scanning and NFS, which are typical off-loaded functions with different characteristics. To evaluate scalability and cost-effectiveness of the ANS system, we estimated the throughput from measurements on our ANS prototype, and we compared it with the throughput that was measured on a 450 MHz Pentium II Xeon server. Our estimation indicates that the scan throughput of the ANS system increases up to 71 MB/s while that of the server saturates at 25 MB/s because of its CPU bottleneck. The NFS read/write throughputs of two ANS drives surpassed the server maximum throughputs. (13 Refs)

Subfile: C

Descriptors: file servers; magnetic disc storage; storage management

Identifiers: active-network-storage; array of ANS disk drives; ANS drive; ANS drive prototype; flexible disk system; high-performance embedded-processors; modular software design

Class Codes: C6120 (File organisation); C5320C (Storage on moving magnetic media); C6150N (Distributed systems software)

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11/5/15 (Item 3 from file: 6)

DIALOG(R) File 6:NTIS

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1789463 NTIS Accession Number: PB94-868858

Embedded Computer Systems . (Latest citations from the INSPEC Database )

(Published Search)

NERAC, Inc., Tolland, CT.

Corp. Source Codes: 103588000

Sponsor: National Technical Information Service, Springfield, VA.

Feb 94 162 citations minimum

Languages: English Document Type: Bibliography

Journal Announcement: GRAI9409

Updated with each order. Supersedes PB93-853190. Sponsored in part by National Technical Information Service, Springfield, VA.

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Springfield, VA, 22161, USA.

NTIS Prices: PC N01/MF N01

Country of Publication: United States

The bibliography contains citations concerning the development, architectural aspects, and reliability considerations of embedded computer systems hardware and software. The citations consider productivity, maintenance, and performance analyses of specific systems, and their implementation in military operations, industrial production control, and communication systems. Standardization aspects of the Ada programming language in embedded systems are also presented. (Contains a minimum of 162 citations and includes a subject term index and title list.)

Descriptors: \*Bibliographies; \*Computer systems hardware

Identifiers: Published Searches; Embedded computer systems; NTISNTISH; NTISNERACD

Section Headings: 62A\* (Computers, Control, and Information Theory--Computer Hardware); 62B (Computers, Control, and Information Theory--Computer Software); 88E (Library and Information Sciences--Reference Materials)

11/5/20 (Item 8 from file: 6)

DIALOG(R) File 6:NTIS

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0569564 NTIS Accession Number: AD-912 632/7/XAB

**Analysis of Hardware and Software Storage and Retrieval Functions**

(Technical document)

Shen, J. T.

Naval Electronics Lab Center San Diego Calif

Corp. Source Codes: 403940

Report No.: NELC-TD-259

10 Jul 73 52p

Journal Announcement: GRAI7622

Distribution limitation now removed. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A04/MF A01

Contract No.: NELC-Z401

This report presents the results of an analysis of the information storage and retrieval (ISAR) functions of several Navy ISAR systems. The analysis was performed to provide further support to the Advanced Software Technology Division for Project 2175. In brief, the guiding philosophy of Project 2175 is to determine the feasibility of mechanizing storage and retrieval functions in modular building blocks by combinations of hardware, firmware and software. Recent studies have borne witness to the growing concern with a number of problems incident to the acquisition and operation of computer-based storage and retrieval systems. In essence, these problems include the following: (1) increasing system development costs; (2) extensive time required to acquire new systems; (3) the variety of incompatible systems and components; (4) evolving requirements precipitated by the growing complexity of modern warfare; (5) increasing costs of maintaining multiple systems and components; (6) limited reliability of system software and (7) the trend toward reduced funding resources. Of all these problems, the software aspect is one of the most vexing. In particular there is convincing evidence to indicate that software is the most expensive, least reliable element of contemporary computer-based systems.

Descriptors: \*Information retrieval; \*Data storage systems; \*Computer programs; Memory devices; Digital computers; Data processing; Costs; Electromagnetic compatibility; Maintenance; Reliability(Electronics); Data; Algorithms; Computer logic; Sequences(Mathematics); Statistical analysis; Inequalities; Disks; Simulation; Compilers

Identifiers: An/uyk-7; Computer hardware; Computer files; Computerized simulation; Data acquisition; Data bases; Delay time; File structure;

Firmware; Magnetic disk storage; Magnetic drum storage; Command and control systems; Navy; Shipboard; Tactical intelligence; Parallel processing; NTISDODXD



19/5/11 (Item 4 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2002 Institution of Electrical Engineers. All rts. reserv.

02406797 INSPEC Abstract Number: C85016003

**Title: Let's talk DBMS**

Author(s): Snyders, J.

Journal: Infosystems vol.31, no.12 p.36-44

Publication Date: Dec. 1984 Country of Publication: USA

CODEN: IFSYAF ISSN: 0364-5533

Language: English Document Type: Journal Paper (JP)

Treatment: General, Review (G)

Abstract: You cannot discuss database management systems (DBMS) without a good working definition of a database. A database is a representation or model of the things, descriptions and relationships that define the business and the environment in which that business operates. It is the raw material that supports the production of information. The database therefore becomes a resource that belongs to the entire company as opposed to any one specific functional area or application. A DBMS integrates data files into a database and provides different views to different users. Therefore, the software, hardware, **firmware** and procedures that manage that **database** make up the DBMS. (0 Refs)

Subfile: C

Descriptors: administrative data processing; database management systems

Identifiers: information production; database management systems;  
business; DBMS; data files

Class Codes: C6160 (Database management systems (DBMS)); C7100 (Business and administration)

19/5/17 (Item 1 from file: 434)  
DIALOG(R)File 434:SciSearch(R) Cited Ref Sci  
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07405295 Genuine Article#: D0634 Number of References: 0

**Title: USLS REPOSITORY FOR FIRMWARE ENGINEERING MATERIALS**

Author(s): SHRIVER BD

Corporate Source: IBM CORP, THOMAS J WATSON RES CTR, POB 218, HO-B04A/YORKTOWN  
HTS//NY/10598

Journal: IEEE SOFTWARE, 1986, V3, N4, P3

Language: ENGLISH Document Type: EDITORIAL

Geographic Location: USA

Subfile: CC ENGI--Current Contents, Engineering, Technology & Applied  
Sciences

19/5/18 (Item 1 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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09594213

Big back-up

Thailand: New product from Dell Computer

The Nation (XBO) 05 Sep 2001 Online

Language: ENGLISH

In Thailand, the new Powervault tape, known as the Dell PowerVault 136T, has been unveiled by US-based Dell Computer. Retailed at B 560,000, this product is aimed at performing restoration and backup of business needs that require enormous secondary storage. An online device can be employed to handle the new model. Configuration of the library via the Internet, making diagnostics as well as updating **library** drivers and controller **firmware** are some of the functions that can be performed via the use of the online gadget. This new offering has two-hour back-up windows, lower than the normal back-up window that usually takes eight hours. Compared to Dell PowerVault 130T range, this new model has four times the throughput and six times higher capacity. \*

23/5/4 (Item 4 from file: 8)  
DIALOG(R) File 8: Ei Compendex(R)  
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05384770 E.I. No: EIP99104829795

**Title: Teraphim: An engine for distributed information retrieval**  
Author: de Kretser, Owen; Moffat, Alistair; Zobel, Justin  
Corporate Source: Univ of Melbourne, Aust  
Conference Title: Proceedings of the 1998 21st Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'98)  
Conference Location: Melbourne, Vic., Aust Conference Date: 19980824-19980828  
Sponsor: WEST GROUP; CSIRO Australia; Microsoft Research; SUN Microsystems; et al.  
E.I. Conference No.: 55711  
Source: SIGIR Forum (ACM Special Interest Group on Information Retrieval) 1998. p 384  
Publication Year: 1998  
CODEN: FASRDV ISSN: 0163-5840  
Language: English  
Document Type: JA; (Journal Article) Treatment: G; (General Review); T; (Theoretical)  
Journal Announcement: 9911W3  
Abstract: A Mg software system version called Teraphim is designed by executing a receptionist process that can connect with, and synthesize query results from, a number of librarian processes, each of which manages a single Mg document collection. The relationship between receptionists and librarians is many-to-many, and each librarian may be simultaneously communicating with a number of different receptionists. This organization allows maximal flexibility. 12 Refs.  
Descriptors: Information retrieval systems; Distributed database systems; Computer software; Embedded systems; Query languages; Local area networks; Data communication systems; Vocabulary control; Indexing (of information)  
Identifiers: Software package Mg; Large-scale information retrieval systems  
Classification Codes:  
903.3 (Information Retrieval & Use); 723.3 (Database Systems); 903.1 (Information Sources & Analysis)  
903 (Information Science); 723 (Computer Software); 722 (Computer Hardware)  
90 (GENERAL ENGINEERING); 72 (COMPUTERS & DATA PROCESSING)

23/5/30 (Item 5 from file: 2)  
DIALOG(R) File 2: INSPEC  
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5262567 INSPEC Abstract Number: C9606-7410F-074

**Title: The design and implementation for real-time database system**  
Author(s): Shu-Chin Su Chen; Yu-Ping Hwang; Lin, B.P.  
Author Affiliation: Comput. & Commun. Res. Lab., Ind. Technol. Res. Inst., Hsinchu, Taiwan  
Conference Title: Proceedings of the 10th International Conference on Information Networking, ICOIN-10 p.376-81  
Publisher: POSTECH Inf. Res. Lab, Pohang, South Korea  
Publication Date: 1996 Country of Publication: South Korea iii+583 pp.  
Material Identity Number: XX96-00276  
Conference Title: Proceedings of ICOIN-10: International Conference on Information Networking  
Conference Sponsor: Inf. Process. Soc. Japan; IEEE Comput. Soc. TCDP; POSTECH PIRL  
Conference Date: 29-31 Jan. 1996 Conference Location: Kyung-ju, South Korea  
Availability: Prof. Cheeha Kim, Dept. of Computer Science, Pohang 790-784, South Korea

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Practical (P)

Abstract: Applications of intelligent networks have renewed the telecommunications industry, and databases are important aspects of this (Robrock, 1991). In pace with the demand of this modern society, various kinds of commercial database system are being extensively used in the business world. These database systems often possess powerful functions and high reliability. However, they are quite unsuitable to be used for telecommunications or **embedded systems** because these commercial **database** systems will not be able to supply quick response or high performance. To cope with this problem, we designed a real-time database system to provide a high performance service for the needs of such application software. This article describes the design and implementation experiences of real time database systems. (7 Refs)

Subfile: C

Descriptors: database management systems; intelligent networks; real-time systems; software performance evaluation; software reliability; systems analysis; telecommunication computing

Identifiers: real-time database design; real-time database implementation; intelligent networks; telecommunications industry; commercial database system; business; software reliability; embedded systems; commercial database; software performance; application software

Class Codes: C7410F (Communications computing); C6160 (Database management systems (DBMS)); C6110 (Systems analysis and programming)

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23/5/35 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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03779794 JICST ACCESSION NUMBER: 98A0881828 FILE SEGMENT: JICST-E

**Support to Generate Libraries of Devices for Embedded Systems .**

NISHIYAMA NAOKI (1); KATAYAMA TETSURO (1); SAISHO KEIZO (1); FUKUDA AKIRA

(1)

(1) Advanced Inst. Sci. and Technol., Nara

Joho Shori Gakkai Kenkyu Hokoku, 1998, VOL.98,NO.71(OS-79), PAGE.69-76,

FIG.4, REF.7

JOURNAL NUMBER: Z0031BAO ISSN NO: 0919-6072

UNIVERSAL DECIMAL CLASSIFICATION: 681.3.066 681.327.8

LANGUAGE: Japanese

COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: Embedded systems such as computers used in electrical appliances and instruments are considered. Various embedded systems are developed, and software dedicated to them is also. This paper shows support to generate libraries of devices to reduce the burden in development of software to control an **embedded system** . A **library** of devices is defined as a set of codes to directly control a device and is called as a low-level device drivers. A low-level device driver generation system is proposed in order to support development of an application program for a small scale embedded system with an 8-bit/16-bit microcomputer. Input forms of the low-level device driver generation system and the possibility of automatic generating the low-level device driver are examined. (author abst.)

DESCRIPTORS: operating system; input output control; input output unit; small scale; microcomputer; automatic programming; hierarchical structure; system interface; program package; AD conversion; signal converter

IDENTIFIERS: analog-digital converter

BROADER DESCRIPTORS: system program; computer program; software; control system(computer); method; computer peripheral equipment; equipment; scale; digital computer; computer; hardware; computer programming; structure; interface; signal conversion; signal processing; treatment; transformation and conversion; electric converter; converter

CLASSIFICATION CODE(S): JD03020J; JC04040J

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File 610:Business Wire 1999-2002/Nov 14  
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Set	Items	Description
S1	190621	FIRMWARE OR FIRM()WARE OR EMBEDDED(3N)(CHIP? ? OR MICROCHIP? ? OR PART? ? OR ELEMENT? ? OR MODULE? ? OR HARDWARE OR SOFTWARE OR SYSTEM? ? OR PROCESSOR? ? OR MICROPROCESSOR? ?)
S2	488970	BIOS OR CMOS OR MICROCODE OR BOOTSTRAP OR PROGRAMMABLE OR PROGRAMMED
S3	76393	S2(3N)(CHIP? ? OR CHIPSET? ? OR MICROCHIP? ? OR BOARD? ? OR HARDWARE OR COMPONENT? ? OR PART? ? OR ROM? ? OR PROM? ? OR EPROM? ? OR EEPROM? ? OR SEMICONDUCT??? OR SEMI(W)CONDUCT??? OR IC OR ASIC)
S4	3627536	DATABASE? ? OR DATA()BASE? ? OR REPOSITOR??? OR INVENTORY(-)MANAGEMENT OR BILL??? (1W)MATERIAL? ? OR CATALOG? ? OR LIBRARY???
S5	11598806	COMPUTER? ? OR COMPUTING OR PC OR MONITOR? ? OR PRINTER? ? OR SCANNER? ? OR KEYBOARD? ? OR DRIVE OR DRIVES OR HARD() (DISK? ? OR DISC? ?) OR MODEM? ?
S6	690816	S5(5N)(COMPONENT? ? OR SUBCOMPONENT? ? OR PART? ? OR PIECE? ? OR MATERIAL? ? OR MODULE? ? OR SECTION? ? OR ELEMENT? ? OR UNIT? ? OR BUILDING()BLOCK? ? OR CONSTITUENT? ? OR ASSEMBLY OR

ASSEMBLIES OR SUBASSEMBLY OR SUBASSEMBLIES)

S7	2825	S4(5N)S1
S8	32	S7(S)S6
S9	7625	S4(5N)S6
S10	24	S1(S)S9
S11	51	S8 OR S10
S12	446	S4(5N)S3
S13	3	S12(S)S6
S14	7625	S4(5N)S6
S15	12	S14(S)S3
S16	64	(S11 OR S13 OR S15)
S17	42	RD (unique items)
S18	513	S4(5N)FIRMWARE
S19	161	S18(S)S5
S20	88	RD (unique items)
S21	56	S20 NOT PY=2000:2002
S22	48	S21 NOT S17
S23	3927	S6(5N)(SEARCH??? OR FIND??? OR QUER??? OR QUERY???)
S24	21	S23(S)(S1 OR S3)
S25	15	RD (unique items)

17/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02652877 SUPPLIER NUMBER: 93075767 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**One-chip radio design cuts its teeth on Bluetooth.**  
Brown, Chappell  
Electronic Engineering Times, 61  
Oct 21, 2002  
ISSN: 0192-1541 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 1022 LINE COUNT: 00085

... wireless modems that must meet the cost constraints of consumer electronics. The ability to integrate as much of a design as possible on a single **CMOS chip** has therefore become a pivotal challenge. While the performance constraints may be relaxed, reducing the **bill-of-materials** list for a complete **modem** translates into an interesting design trade-off debate.

"Now that CMOS has reached quarter-micron and 0.18-micron levels, it is much easier to...

17/3,K/2 (Item 2 from file: 275)  
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02488058 SUPPLIER NUMBER: 72271965 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**SUBSYSTEMS -- Coreco rolls embedded vision processor. (Coreco Imaging's Coreco Imaging Mamba-100) (Product Announcement)**  
Electronic Engineering Times, 158  
March 26, 2001  
DOCUMENT TYPE: Product Announcement ISSN: 0192-1541 LANGUAGE:  
English RECORD TYPE: Fulltext  
WORD COUNT: 288 LINE COUNT: 00027

... operation than the earlier generation's 66-MHz bus. Applications that run on the original Mamba are directly transferable to the higher-speed product.

The **unit** extends the **PC** architecture to overcome the bandwidth limitations normally encountered by the host **PCI** bus, allowing use of existing desktop development and debug tools and **Win32** application programming interface-based **software libraries** to deploy **embedded** vision applications without sacrificing performance.

Applications can be created using **Microsoft Visual Studio's** integrated development environment. Imaging applications can be created and tested for...

17/3,K/3 (Item 3 from file: 275)  
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02390664 SUPPLIER NUMBER: 61543296 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Hitachi SuperH Software Modem Eliminates Need for Separate Modem Hardware Cutting Embedded System Cost. (Hitachi Semiconductor) (Product Announcement)**  
EDGE: Work-Group Computing Report, NA  
April 17, 2000  
DOCUMENT TYPE: Product Announcement LANGUAGE: English  
RECORD TYPE: Fulltext  
WORD COUNT: 695 LINE COUNT: 00063

TEXT:

...availability of software modem functions running on its SuperH digital signal processing (DSP) RISC microprocessors, the SH3-DSP and SH-4 devices, for cost-sensitive **embedded systems** applications. The ability to run fax and data modem functions in software on the same processor currently being used for other system tasks enhances the total system

functionality while reducing the total system **bill -of- material** (BOM) cost. Where fax/ **modem** functions were implemented as dedicated hardware, the SuperH Software Modem now provides this capability in software, eliminating dedicated modem hardware costs for a datapump and...

17/3,K/4 (Item 4 from file: 275)  
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02173683 SUPPLIER NUMBER: 20537606 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Microsoft Palm PC. (Palm PC Companion PDA) (Product Information) (Brief Article)**  
e-Business Advisor, v16, n5, p8(1)  
May, 1998  
DOCUMENT TYPE: Brief Article LANGUAGE: English RECORD TYPE:  
Fulltext  
WORD COUNT: 267 LINE COUNT: 00026

... catch up to the functionality available on the market-leading 3Com PalmPilot, Microsoft is encouraging third-party development of software and peripherals for the Palm PC. Among the many planned third- **party** products are a data exchange tool from Advance Systems (<http://www.asl.com/>), wireless two-way messaging capabilities from JP Systems (<http://www.jpssystem.com...>

...Corporation (<http://www.cic.com/>) and a Java database from Cloudscape (<http://www.cloudscape.com/>). Already released is Oracle Lite 3.0, a small-profile **database** designed for **embedded** applications and handheld **systems**.

Independent developers interested in building products for the Palm PC must have Visual C++ 5.0, the Windows CE Toolkit for Visual C++, and the ...

17/3,K/5 (Item 5 from file: 275)  
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02127083 SUPPLIER NUMBER: 20078183 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Cable modems: Rockwell Semiconductor Systems enters cable modem market. (HM2121 Quadrature Amplitude Modulation IC and HM2115 Forward Error Correction IC two-chip solution for receiving high-speed data over cable) (Company Business and Marketing)**  
EDGE, on & about AT&T, v12, p8(1)  
Dec 8, 1997  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 1494 LINE COUNT: 00131

... modem ICs, Rockwell provides a broad range of engineering and design services to support cable modem OEMs. These services include development of accompanying software and **firmware**, system integration, debug and evaluation, detailed design specifications, design documentation including schematic and PCB layout files and **bill of materials**, and testing and working cable **modem** prototypes. Furthermore, Rockwell's El Paso Custom Manufacturing Facility has the expertise to quickly get customers into volume production.

"Rockwell's manufacturing and customer support...

17/3,K/6 (Item 6 from file: 275)  
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02088211 SUPPLIER NUMBER: 19656527 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**SGS puts 486 PC on a chip. (SGS-Thomson Microelectronics' STPC Consumer) (Product Announcement)**  
Turley, Jim

Microprocessor Report, v11, n10, p1(3)

August 4, 1997

DOCUMENT TYPE: Product Announcement

ISSN: 0899-9341

LANGUAGE:

English

RECORD TYPE: Fulltext

WORD COUNT: 2189 LINE COUNT: 00165

... idea of the completely embeddable PC forward. The STPC allows anyone to build a network computer, Internet TV, or set-top box with a simple **bill of materials**. Ironically, software compatibility with the PC probably will not be important in these systems. The STPC is simply the quickest and most convenient way to create an **embedded system**.

It's not the cheapest way, however, nor will it yield the fastest system. This chip makes the most sense for systems that will see...

17/3,K/7 (Item 7 from file: 275)

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01720922 SUPPLIER NUMBER: 15944371 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Sub-subnotebook search; memo to PC makers: let's get small. (Working On It)**

(Column)

Grevstad, Eric

Computer Shopper, v15, n1, p53(2)

Jan, 1995

DOCUMENT TYPE: Column ISSN: 0886-0556

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 909 LINE COUNT: 00065

...ABSTRACT: a system that has a very comfortable or easy-to-use keyboard. Sharp Electronics' Wizard PDA offers users a very good touch-screen interface, good **database firmware**, scheduling and a fax/modem, but the keyboard is so small it is barely operable. Psion Inc's Series 3a PDA is a more expensive...

...notebook computer with a larger-than-notebook keyboard that unfolds. Another solution would be if the computer industry was able to perfect its pen-based **computing** solutions and offer them as **part** of PDA products.

17/3,K/8 (Item 8 from file: 275)

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01679615 SUPPLIER NUMBER: 15313648 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Academic careers for experimental computer scientists and engineers.**

(includes related article on development of mouse pointing device)

Communications of the ACM, v37, n4, p87(4)

April, 1994

ISSN: 0001-0782

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2774 LINE COUNT: 00235

... widely known computer advancements of the 1980s trace their origins to ECSE research. Examples are known to the average user--RISC technology, window systems, relational **databases**--but many more are **embedded systems**, amking them faster, more efficient, or more functinal, or they are part of the technological infrastructure that supports the rapid innovation so characteristic of the computer field. Experimental work is also an essential intellectual **element** of the **computer** science and engineering (CSE) discipline that enriches research and teaching in the field.

Industry and universities both play major roles in ECSE report. ECSE academic...

17/3,K/9 (Item 9 from file: 275)

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01268749 SUPPLIER NUMBER: 07275254  
Data base machines handle FTS 2000 work.

Anthes, Gary H.

Federal Computer Week, v3, n11, p50(2)

March 13, 1989

ISSN: 0893-052X

LANGUAGE: ENGLISH

RECORD TYPE: ABSTRACT

ABSTRACT: Teradata Corp's **systems** with **embedded data bases** are well received in the federal market. Teradata's federal customers include NASA, the IRS, and the National Security Agency. Recently Teradata has installed three **data base computers** as **part** of the FTS 2000 contract. The General Administrations FTS 2000 Billing and Accounting System and the FTS 2000 Management Information System both use Teradata systems...

17/3,K/10 (Item 10 from file: 275)

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01261226 SUPPLIER NUMBER: 07123502 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Optical time-domain reflectometer user interface design. (in reference to the Hewlett-Packard HP 8145A Optical Time-Domain Reflectometer) (technical)**

Vobis, Joachim

Hewlett-Packard Journal, v39, n6, p35(4)

Dec, 1988

DOCUMENT TYPE: technical ISSN: 0018-1153

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1838 LINE COUNT: 00141

...ABSTRACT: is difficult to understand or explain. However, it was necessary to provide users with a friendly, easy to use interface. A large amount of the **firmware** in the HP 8145A is devoted to a logical and friendly interface for both remote and local control. The **firmware** can be divided into five **sections**, including the central **database**, the **keyboard** and display processes, the HP-IB process, the measurement process and the check process. The three levels of interface available on the HP 8145A are the standard, very easy or very sophisticated. Each of these **firmware** sections and interface levels is examined in detail. The HP 8145A's front-panel interface, softkeys, submenus, comparing curves and HP-IB capabilities are also...

17/3,K/11 (Item 1 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou. (R)

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01581714 Supplier Number: 48065997 (USE FORMAT 7 FOR FULLTEXT)

**Spectra Logic Announces New TreeFrog Series of Tape Libraries Targeted at Tuesday's Distributed Computing Environment.**

Business Wire, p10210075

Oct 21, 1997

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1204

... failure) which Spectra Logic expects to raise based on extensive life tests currently in process.

The TreeFrog design allows customers to upgrade by adding additional **drives** (up to 2 per **unit**), a barcode reader or even progressing to newer tape technologies (like Travan NS 20) to meet the user's changing needs. This ability protects a customer's investment for years, lowering the true cost of ownership for the device. Free updates to the **library firmware**, drive **firmware** and the Virtual Control Panel are to be available through the World Wide Web.

NEW VIRTUAL CONTROL PANEL USER INTERFACE

Spectra Logic has leveraged its...

17/3,K/12 (Item 2 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01301090 Supplier Number: 45783177 (USE FORMAT 7 FOR FULLTEXT)  
**Spectra Logic releases new user interface for tape libraries.**  
Business Wire, p9121043  
Sept 12, 1995  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 430

... tape drive cleaning monitor to protect the tape drive by measuring read and write efficiency.

The ability to add additional features and functions by uploading **library firmware** from a tape is in itself a feature of Spectra Logic libraries. The Spectra 4000 (DDS-2) and Spectra 9000 (8mm) were both developed to be upgraded in the field through both firmware upgrades and modular Field Replaceable **Units** (FRUs).

Additional **drives**, barcode capability, larger tape capacity carousels - and new Shell firmware -- can be added, allowing users to scale the capacity, throughput and functionality of their Spectra...

17/3,K/13 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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04673418 Supplier Number: 62266166 (USE FORMAT 7 FOR FULLTEXT)  
**HITACHI INTRODUCES SUPERH SOFTWARE MODEM. (SH3-DSP and SH-4 devices) (Product Announcement)**  
Modem User News, v12, n6, pNA  
June, 2000  
Language: English Record Type: Fulltext  
Article Type: Product Announcement  
Document Type: Newsletter; Trade  
Word Count: 654

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:

...has introduced software modem functions running on its SuperH digital signal processing (DSP) RISC microprocessors, the SH3-DSP and SH-4 devices, for cost-sensitive **embedded systems** applications. The ability to run fax and data modem functions in software on the same processor currently being used for other system tasks enhances the total system functionality while reducing the total system **bill -of- material** (BOM) cost. Where fax/**modem** functions were implemented as dedicated hardware, the SuperH Software Modem now provides this capability in software, eliminating dedicated modem hardware costs for a datapump and...

17/3,K/14 (Item 2 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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03909605 Supplier Number: 50111506 (USE FORMAT 7 FOR FULLTEXT)  
**OBJECT DESIGN: Object Design predicts object database boom across Europe as acceptance grows**  
M2 Presswire, pN/A  
June 26, 1998  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 540

... Beagle, vice president-Europe Object Design, said: "The expansion of Object Design across Europe is evidence of object database growth in our

core markets for **component** -based **computing** as well as the emerging markets of publishing, new media and **embedded systems** . As the leading pure object **database** company in Europe, we are increasingly winning competitive bids against the hybrid database players, all of which are yet to deliver a pure Java database...

17/3,K/15 (Item 3 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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03906075 Supplier Number: 50100508 (USE FORMAT 7 FOR FULLTEXT)  
**NEW HANDHELD COMPUTER FROM HARRIS CORP**  
Telecomworldwire, pN/A  
June 22, 1998  
Language: English Record Type: Fulltext  
Article Type: Article  
Document Type: Newsletter; Trade  
Word Count: 110

Harris Corp has introduced its Harris Access Device 2000 handheld computer which is designed to enable field technicians to access their company's corporate **database** or **embedded test systems** and will work seamlessly with all current provider platforms via open standards. The company's Harris Access Device 2000 handheld computer is fully compatible with Harris' Line Test System and Remote Test **Units** and has a built in **modem** to support the sending and receiving of e-mail and faxes. As well as connecting to an intranet, the Internet or any existing Workforce Management...

17/3,K/16 (Item 4 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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03770130 Supplier Number: 48161744 (USE FORMAT 7 FOR FULLTEXT)  
**ROCKWELL SEMICONDUCTOR SYSTEMS: Rockwell enters cable modem market**  
M2 Presswire, pN/A  
Dec 5, 1997  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1482

... ICs, Rockwell provides a broad range of engineering and design services to support cable modem OEMs.=20 These services include development of accompanying software and **firmware** , system integration, debug and evaluation, detailed design specifications, design documentation including schematic and PCB layout files and **bill of materials** , and testing and working cable **modem** prototypes. Furthermore, Rockwell's El Paso Custom Manufacturing =46acility has the expertise to quickly get customers into volume production.

Greg Sheppard, director and principal analyst...

17/3,K/17 (Item 5 from file: 636)  
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03660888 Supplier Number: 47884873 (USE FORMAT 7 FOR FULLTEXT)  
**SGS Puts 486 PC on a Chip**  
Microprocessor Report, v11, n10, pN/A  
August 4, 1997  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Refereed; Trade  
Word Count: 2036

... idea of the completely embeddable PC forward. The STPC allows anyone to build a network computer, Internet TV, or set-top box with a

simple **bill of materials** . Ironically, software compatibility with the PC probably will not be important in these systems. The STPC is simply the quickest and most convenient way to create an **embedded system** .

It's not the cheapest way, however, nor will it yield the fastest system. This chip makes the most sense for systems that will see...

17/3,K/18 (Item 6 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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03432317 Supplier Number: 47070279 (USE FORMAT 7 FOR FULLTEXT)  
**Financial: LSI Logic Corporation Reports Revenues, Earnings in Fourth Quarter and 1996 Year**  
EDGE: Work-Group Computing Report, pN/A  
Jan 27, 1997  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 1162

... boxes based on the worldwide digital video broadcast (DVB) standard. \* The addition of three MiniRISC 32-bit user definable microprocessor cores to LSI's CoreWare **library** . These cores enable **embedded system -on-a- chip** designs at all price-performance points. \* The ATMizer II, a single-chip solution offering the flexibility, performance and bandwidth to meet the challenges of ATM...

...equipment including Network Interface Cards (NICs), Ethernet switches, frame relay switches, high-end servers, bridges, routers and protocol converters. \* The Scenario reference design for a PC add-on **module** based on LSI's MPEG-2 decoder. The module can decode satellite, DVD, and other encoded streams of compressed MPEG-2 digital data and deliver...

17/3,K/19 (Item 7 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02754203 Supplier Number: 45589563 (USE FORMAT 7 FOR FULLTEXT)  
**CHIPS: CIRRUS LOGIC ANNOUNCES INDUSTRY'S FIRST SINGLE-CHIP FLASH DRIVE CONTROLLER, PC CARD FOR OEMS**  
EDGE: Work-Group Computing Report, v6, n262, pN/A  
June 5, 1995  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 921

... It consists of the CL-FC1120 controller and, depending upon capacity needs, up to 20 megabytes of storage using ten Samsung 16M-bit flash memory **components** .

In addition, the flash **drive** is available as a reference design, which is a production-ready solution backed by schematic diagrams, **bills of materials** , **firmware** , and technical application support. This is ideal for applications, such as data acquisition and industrial control, that do not necessarily require a PC Card format...

17/3,K/20 (Item 8 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02550409 Supplier Number: 45144398 (USE FORMAT 7 FOR FULLTEXT)  
**DIGITAL'S NEW ALPHA 21066A CHIP WITH PCI PUTS MORE SPEED INTO EMBEDDED APPLICATIONS, DESKTOP PCs**  
M2 Presswire, pN/A  
Nov 17, 1994  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade

Word Count: 931

... a platform for parallel development of hardware and software applications. The board is packaged with a user's manual, full layout and mechanical information, design **database**, **material** lists, debug **monitor**, and **firmware** development tools.

Prices, Availability The Alpha 21066A microprocessor is offered at two clock speeds: 100MHz and 233MHz. At 233 MHz it is estimated to deliver...

17/3,K/21 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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04567330 Supplier Number: 46713536 (USE FORMAT 7 FOR FULLTEXT)  
**IBM and TI expand ASIC capabilities**  
Electronic Engineering Times, p2  
Sept 16, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 126

IBM will announce a series of enhancements to its **CMOS 5S ASIC** family. These include a linear shrink to a 0.35-micron effective channel length, the addition of new low- **drive library elements** and accompanying pre-designed data-path blocks that can cut power in some circuits nearly in half, and a quick-response plan for delivering million  
...

17/3,K/22 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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02018808 Supplier Number: 42593930  
**How Expert Systems Keep You Running**  
Datamation, p41  
Dec 15, 1991  
Language: English Record Type: Abstract  
Document Type: Magazine/Journal; General Trade

ABSTRACT:  
Computer maintenance firms are making an effort to decrease downtime frequency and length. Many firms are offering better predictions of which **parts** will break down. A **PC database** and expert system tools are being used at client locations, and maintenance scripts are being used that aid field personnel in their tasks. The effectiveness of scheduled maintenance programs is being analyzed, and **firmware** fixes and upgrades are being downloaded to customers. According to Fred Joy, analyst, Meta Group, service firms will probably migrate towards a new generation of...

17/3,K/23 (Item 1 from file: 160)  
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02028366  
**Sedco signs with IBM and SEA**  
Electronic Engineering Times October 3, 1988 p. 14  
ISSN: 0192-1541

Standard Engineering Data's (Sedco) **component library** data files for **PC** -board design systems will be available to IBM and Systems Effectiveness Assoc (Norwood, MA), under an agreement. Sedco's pact with SEA may help establish...

... s experience in providing the design market with software for analyzing PC-boards. Sedco provides libraries for about 30 data books, including

digital TTL and CMOS components from Texas Instruments, National Semiconductor, Hitachi, Motorola, and others. Digital CMOS data books from Integrated Device Technology and Inmos, library files for linear data books  
...

17/3,K/24 (Item 2 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
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01725529

P-CAD'S VERSION 2 0 TO SHOW AT DESIGN AUTOMATION CONFERENCE.  
NEWS RELEASE June 16, 1987 p. 11

... algorithms to allow the design of larger printed circuit boards. P-CAD removed the PCB design size limitations of the earlier versions of PC-CARDS, PC -PLACE, and PC -ROUTE modules by using a new data access method. The larger database size for these programs expands support to 500 components, 8000 pins and 1000 nets. P...

... entry allows a single library part to be placed on either side of the board with no need to have two versions of the same part. PCAD's TTL, CMOS, Discrete and Linear libraries have been updated to include SMT parts.  
...

17/3,K/25 (Item 3 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
(c) 1999 The Gale Group. All rts. reserv.

00744353

Intel will introduce 100 products in 1982, including 3 systems in office automation and personal computing, not to abandon its leadership in components but to expand its highly specialized system business, which brought in 40% of total revenues of \$788 mil in 1981.  
Business Week (Industrial Edition) March 22, 1982 p. 63,651

... to OEMs like Wang, Burroughs and Harris, Intel is working to reduce the processor from a box to several chips which could become standard, essential components for the personal computer industry. The data - base and the transaction processors will use almost identical circuit boards and the same 5.25-in Winchester disc drive made by Computer Memories, a company...

... be sold to systems houses, which assemble computer systems on a custom basis and are an unfamiliar group of customers. Intel has launched its electrically programmable, read-only memory ( EPROM ), able to store 128,000 bits and will reenter the 64K RAM market with an upgraded chip.  
...

17/3,K/26 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

07881989 SUPPLIER NUMBER: 16911879 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Cirrus Logic Announces Industry's First Single-Chip Flash Drive Controller,  
PC Card for OEMs.  
Business Wire, p5290001  
May 29, 1995  
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 962 LINE COUNT: 00087

... It consists of the CL-FC1120 controller and, depending upon capacity needs, up to 20 megabytes of storage using ten Samsung 16M-bit flash memory components.

In addition, the flash drive is available as a reference design, which is a production-ready solution backed by schematic diagrams, bills

of materials , firmware , and technical application support. This is ideal for applications, such as data acquisition and industrial control, that do not necessarily require a PC Card format...

17/3,K/27 (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

05835147 SUPPLIER NUMBER: 12122615 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Knowledge-base systems put data to work for you. (Special Report: New Technology at International Textile Machinery Association 91)**  
Jayaraman, Sundaresan  
Textile World, v142, n3, p51(2)  
March, 1992  
ISSN: 0040-5213 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1443 LINE COUNT: 00123

... demonstrated at this facility.  
On the KBS front, Murata diagnostic system Monitron/2 for Mach Coner was an example of diagnostic expert system. It continuously **monitors** and analyzes "problem" winding **units** and suggests appropriate remedies for correction. In addition, the **parts catalog** , **embedded** in the **system** , can be used for spare parts management. The KBS is rule-based implemented in OPS-83, an expert system shell, running on the Intel 386...

17/3,K/28 (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

05224583 SUPPLIER NUMBER: 11092942 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Inmos focuses on embedded market with T9000 transputer. (SGS-Thompson Microelectronics Inc. Inmos Div.; 32-bit embedded microprocessor T9000) (corrected spelling of 'focusses') (editorial)**  
Wood, Graham  
Canadian Electronics, v6, n6, p6(1)  
June, 1991  
DOCUMENT TYPE: editorial ISSN: 0832-1515 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 547 LINE COUNT: 00046

... comes computing, office automation, imaging and communications applications. Already Inmos is supplying product for the Fuji/Xerox fax system and Toshiba's pick-and-place **assembly** system. Trends driving the embedded **computer** markets are increased processor performance, distributed computing via LANs, multiprocessing (intelligent peripherals), parallel processing ( **databases** , supercomputers) and distributed operating **systems** .

" **Embedded** applications will have the highest proportion of growth because of distributed computing and smart peripherals," said Inmos marketing manager Matthew Hatch.  
Advances in the fields...

17/3,K/29 (Item 1 from file: 553)  
DIALOG(R)File 553:Wilson Bus. Abs. FullText  
(c) 2002 The HW Wilson Co. All rts. reserv.

03552746 H.W. WILSON RECORD NUMBER: BWBA97052746  
**Marketing services versus marketing efforts.**  
AUGMENTED TITLE: interactive voice response strategies  
Culpepper, Kenneth M  
Direct Marketing (Direct Mark) v. 59 (Apr. '97) p. 22-3+  
LANGUAGE: English

...ABSTRACT: initiate multiple interactive marketing endeavors by linking communications and database marketing technologies. For retailers to employ

IVR technology effectively, it is necessary to interface three **programmable components** : telephone system, **computer** system (customer **database** information), and point-of-sale system (any source-data strategy software that collects transactional information that enables the customer to be identified). The benefits that...

17/3,K/30 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

02340289 112931193

**Continuous auditing: Building automated auditing capability**

Rezaee, Zabihollah; Sharbatoghlie, Ahmad; Elam, Rick; McMickle, Peter L

Auditing v21n1 PP: 147-163 Mar 2002

ISSN: 0278-0380 JRNL CODE: APT

WORD COUNT: 8740

...TEXT: auditor-specified criteria are written into a file available only to the auditor for further examination. Snapshot is a method of taking a "picture" of **database elements** before and after **computer** processing operations have been performed to test whether update processing was correct. This **embedded software** typically captures a before-and-after image of the online transaction and stores the results in an extended record for auditor consideration.

In a large...

17/3,K/31 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

01357760 00-08747

**Tape library reliability ... the myth? ... The reality!**

Elizer, Lee H

Computer Technology Review v16n11 PP: 34 Nov 1996

ISSN: 0278-9647 JRNL CODE: CTN

WORD COUNT: 1071

...TEXT: modes. Light experience by engineers in tape drives, tape libraries, and/or error correction techniques yields a less effective overall data availability of the tape **library** at the end user level.

**Firmware** -control algorithms are a key technology and differentiator among tape library vendors. Intelligent features, such as hotswapping of tape **drive components** (both an electronic and firmware interaction) and general interaction of the tape library with the application(s), require a high level of "smartness" as to...

17/3,K/32 (Item 3 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

00737050 93-86271

**An overview of computer simulation in manufacturing**

Nwoke, Ben U; Nelson, Del R

Industrial Engineering v25n7 PP: 43-45 Jul 1993

ISSN: 0019-8234 JRNL CODE: INE

WORD COUNT: 2089

...TEXT: trends and anticipate price fluctuations, which can translate into a large amount of money.

In electronics, technicians and designers are now creating circuit simulations on **computers** with **parts libraries** composed of actual **components** **programmed** to exhibit the same operational characteristics



as their physical counterparts. This type of simulation eliminates much of the troubleshooting necessary to locate defective components in...

17/3,K/33 (Item 4 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

00636874 92-51814  
**Compaq LTE Lite/25c Offers Good Color - For a Price**  
Uiterwijk, Andreas; Nash, Siobhan  
InfoWorld v14n37 PP: 92 Sep 14, 1992  
ISSN: 0199-6649 JRNL CODE: IFW  
WORD COUNT: 877

ABSTRACT: The Compaq LTE Lite/25c from Compaq **Computer** Corp. is **part** of a 2nd wave of color notebooks that started shipping several months ago. Compaq designed this computer to fit inside half of a briefcase. It...

... Lite/25c easy to use for both beginning and advanced users. These include preinstalled software, DOS 5.0, Windows 3.1, and an online help **library**. An **embedded** trackball enhances the **system**'s ease of use, allowing the use of true mouse-driven applications. Special hotkeys enable the user to toggle between internal and external video, quick...

17/3,K/34 (Item 1 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

0603383 95-59603  
**Cirrus Logic announces industry's first single-chip flash drive controller, PC Card for OEMs**  
Fowler, Joe  
Business Wire (San Francisco, CA, US) s1 p1  
PUBL DATE: 950529  
WORD COUNT: 913  
DATELINE: Fremont, CA, US

TEXT:

...It consists of the CL-FC1120 controller and, depending upon capacity needs, up to 20 megabytes of storage using ten Samsung 16M-bit flash memory **components**.

In addition, the flash **drive** is available as a reference design, which is a production-ready solution backed by schematic diagrams, **bills** of **materials**, **firmware**, and technical application support. This is ideal for applications, such as data acquisition and industrial control, that do not necessarily require a PC Card format...

17/3,K/35 (Item 2 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

0544359 95-01245  
**Digital's new Alpha 21066A chip with PCI puts more speed into embedded applications, desktop PCs**  
McGloin, Patricia  
PR Newswire (New York, NY, US) s1 p1  
PUBL DATE: 941114  
WORD COUNT: 850  
DATELINE: Maynard, MA, US

TEXT:

...a platform for parallel development of hardware and software

applications. The board is packaged with a user's manual, full layout and mechanical information, design **database**, **material** lists, debug **monitor**, and **firmware** development tools.

#### Prices, Availability

The Alpha 21066A microprocessor is offered at two clock speeds: 100MHz and 233MHz. At 233 MHz it is estimated to deliver...

17/3,K/36 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2002 Resp. DB Svcs. All rts. reserv.

01914642

**Westinghouse control and IT systems offer flexibility**  
**(New approach eliminates propriety operating schemes and vendor-specific hardware platforms for convention distributed control systems)**

Electric Light & Power, v 75, n 07, p 14

July 1997

DOCUMENT TYPE: Journal ISSN: 0013-4120 (United States)

LANGUAGE: English RECORD TYPE: Abstract

#### ABSTRACT:

...redundant high-speed fiber distributed data interface (FDDI) network backbone which uses widely available hardware; a Web server that is JAVA-compliant; fully redundant Pentium PC controllers that employ standard Peripheral **Component** Interconnect bus architecture and commercially available operating systems; off-the-shelf workstations or PC user interface using Solaris or Windows NT; and an **embedded** relational **database** management **system** that can provide data continuity and access, system-wide. Ovation eliminates the need for proprietary operating systems and vendor-specific hardware platforms. This means that...

17/3,K/37 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01256314 CMP ACCESSION NUMBER: EET20021021S0048

**One-chip radio design cuts its teeth on Bluetooth**

Chappell Brown

ELECTRONIC ENGINEERING TIMES, 2002, n 1241, PG61

PUBLICATION DATE: 021021

JOURNAL CODE: EET LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: TECHNOLOGY

WORD COUNT: 927

... wireless modems that must meet the cost constraints of consumer electronics. The ability to integrate as much of a design as possible on a single **CMOS** **chip** has therefore become a pivotal challenge. While the performance constraints may be relaxed, reducing the **bill -of- materials** list for a complete **modem** translates into an interesting design trade-off debate.

"Now that CMOS has reached quarter-micron and 0.18-micron levels, it is much easier to...

17/3,K/38 (Item 2 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01233992 CMP ACCESSION NUMBER: EET20010326S0120

**SUBSYSTEMS - Coreco rolls embedded vision processor**

ELECTRONIC ENGINEERING TIMES, 2001, n 1159, PG158

PUBLICATION DATE: 010326

JOURNAL CODE: EET      LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: PRODUCTWEEK  
WORD COUNT: 258

... operation than the earlier generation's 66-MHz bus. Applications that run on the original Mamba are directly transferable to the higher-speed product.

The unit extends the PC architecture to overcome the bandwidth limitations normally encountered by the host PCI bus, allowing use of existing desktop development and debug tools and Win32 application programming interface-based **software libraries** to deploy **embedded** vision applications without sacrificing performance.

Applications can be created using Microsoft Visual Studio's integrated development environment. Imaging applications can be created and tested for...

17/3,K/39      (Item 3 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01103445    CMP ACCESSION NUMBER: EET19960916S0012  
**IBM and TI expand ASIC capabilities** (Late News)  
ELECTRONIC ENGINEERING TIMES, 1996, n 919, PG02  
PUBLICATION DATE: 960916  
JOURNAL CODE: EET      LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: News  
WORD COUNT: 132

IBM will announce a series of enhancements to its **CMOS 5S ASIC** family. These include a linear shrink to a 0.35-micron effective channel length, the addition of new low- **drive library elements** and accompanying pre-designed data-path blocks that can cut power in some circuits nearly in half, and a quick-response plan for delivering million ...

17/3,K/40      (Item 1 from file: 613)  
DIALOG(R)File 613:PR Newswire  
(c) 2002 PR Newswire Association Inc. All rts. reserv.

00853268    20021113NEW025 (USE FORMAT 7 FOR FULLTEXT)  
**Sea View Technologies Acquires www.56k.Com**  
PR Newswire  
Wednesday, November 13, 2002 16:02 EST  
JOURNAL CODE: PR    LANGUAGE: ENGLISH    RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 300

TEXT:

...components firm, Sea View Technologies, Inc., headquartered in Newington, NH.

Computer enthusiasts to engineers have relied on [www.56k.com](http://www.56k.com) for several years as a **repository** for detailed information, data sheets, **firmware** downloads, upgrades and buyer's guide for modems. The success of the site as a meeting place for those seeking technical advice attracted the attention ...

...com as a logical extension of our business," Roland Brewer, CEO of Sea View Technologies explained. "We buy and sell a wide range of electronic **components** , including **modem** chip sets. Many of our

customers  
and potential customers turn to www.56k.com for information. We saw  
acquiring  
this site as a means of increasing our ability to serve our customers."

Mr. Brewer said that Sea View will continue to provide information to  
end  
users and manufacturers when **modem components** become obsolete or  
discontinued  
so that they can have an opportunity to get their parts before its too  
late.  
"We invite all modem manufacturers to...

17/3,K/41 (Item 2 from file: 613)

DIALOG(R)File 613:PR Newswire

(c) 2002 PR Newswire Association Inc. All rts. reserv.

00806611 20020806DATU014 (USE FORMAT 7 FOR FULLTEXT)

**RetalixUSA Intensifies Partnership With Pervasive Software**

PR Newswire

Tuesday, August 6, 2002 08:02 EDT

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 810

TEXT:

Pervasive Software(R) Inc. (Nasdaq: PVSU), a leading provider of **embedded**  
and  
Web **database software** that powers business-critical applications, today  
announced that RetalixUSA, a subsidiary of Retalix Ltd(R) (Nasdaq: RTLX)  
and a  
software vendor for the small- and...

...Pervasive(R). RetalixUSA's  
high resale volume of Pervasive's database technology helped them achieve  
the  
increased partnership status. Pervasive.SQL(TM) is the solitary **database**  
engine and strategic **component** that **drives** the company's recently  
released NCR  
ScanMaster 2.0.

"We have relied on Pervasive database solutions for 10 years because of  
the stability and affordability...

17/3,K/42 (Item 1 from file: 610)

DIALOG(R)File 610:Business Wire

(c) 2002 Business Wire. All rts. reserv.

00057800 19990609160B0206 (USE FORMAT 7 FOR FULLTEXT)

**GlobeSpan Announces High-Density G.lite-Optimized DSL Solution**

Business Wire

Wednesday, June 9, 1999 08:56 EDT

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 549

...minimize its customers' development  
cost and accelerate time-to-market. GlobeSpan's new reference design  
clearly demonstrates the high density attainable with the company's  
**programmable DSL chipsets**. The reference design package contains a  
design guide, circuit schematics, **bill of materials** and PC layout,  
enabling a DSL equipment manufacturer to design dense, low-power,  
low-cost DSLAMs using GlobeSpan's chipsets.

22/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02350959 SUPPLIER NUMBER: 57617447 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Stream Machine claims chip uses only 4 Mbytes of memory to encode --  
Startup leaves gate with 2-Mbit/s video codec. (SM2210 MPEG-2 video  
encoder/decoder chip)**

Yoshida, Junko  
Electronic Engineering Times, 30  
Nov 15, 1999

ISSN: 0192-1541 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 929 LINE COUNT: 00076

... Stream Machine will launch two reference designs: the standalone  
personal video recorder reference design and the video capture and playback  
PCI board reference design for PC applications. Both will include  
software/ **firmware** , schematics, **bill of materials** , Gerber files and  
user documentation.

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22/3,K/2 (Item 2 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02252218 SUPPLIER NUMBER: 53389774 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**DESKTOP TAPE LIBRARIES. (Hardware Review) (Evaluation)**

Barker, Ralph  
UNIX Review's Performance Computing, 17, 1, 41(1)  
Jan, 1999

DOCUMENT TYPE: Evaluation LANGUAGE: English RECORD TYPE: Fulltext  
; Abstract  
WORD COUNT: 3853 LINE COUNT: 00310

... MB/sec)

File access time 27 sec  
(Average)

Media load time <7 sec

Max tapes/library 15

Max storage 375GB(450GB)/975GB(1.17TB(\*))

Max drives / library 2  
(\*) With 230m cartridge and **firmware** upgrade  
DLT

ATL's PowerStor L500 uses the Quantum DLT 7000 drive. Digital Linear  
Tape (DLT) is a half-inch format originally developed by Digital...

22/3,K/3 (Item 3 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02141821 SUPPLIER NUMBER: 20163882 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Upwardly mobile. (notebook computers) (includes related article on the Psion  
5) (Buyers Guide)**

Shim, Richard S.  
Computer Shopper, v17, nguide, p164(4)  
Dec 15, 1997

DOCUMENT TYPE: Buyers Guide ISSN: 0886-0556 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2832 LINE COUNT: 00225

... Windows CE is a fledgling compared with PDA pioneers Sharp and

Psion.

Sharp's 11.5-ounce Zaurus ZR-3500X offers a 14.4Kbps fax **modem**, a smooth and simple **PC** link, personal information management and Internet e-mail (including binary file attachments), and best-in-class battery life, at about \$500. The new Psion Series 5 (about \$700), meanwhile, is perhaps the most elegant PDA, combining powerful word processing, spreadsheet, scheduling, and **database** **firmware** with a surprisingly roomy slide-out **keyboard**. Its Win 95 desktop link is slick, but the British import requires an optional **modem** or **PC** Card adapter for communications (plus e-mail and Web-browsing software still in development at press time).

22/3,K/4 (Item 4 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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02108210 SUPPLIER NUMBER: 19844607 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Editorial - Year 2000 Compliance: Tactics Or Strategy?**

Newsbytes, pNEW09110035

Sep 11, 1997

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 752 LINE COUNT: 00063

... understand that years can and do include values of 2000 and above.

However, the magnitude of the challenge is extreme because applications encompass almost everything: **databases**, networks, software, hardware, **firmware**. Compliance concerns extend into our everyday lives. From the **computers** in our cars to the BIOS in our PCs.

For reasons that extend beyond the mere magnitude of the task, there is an enormous amount...

22/3,K/5 (Item 5 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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02068471 SUPPLIER NUMBER: 19342487 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Server management. (five network management products) (Product Information)**

Network VAR, v5, n4, p60(2)

April, 1997

ISSN: 1082-8818 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1684 LINE COUNT: 00142

... helps determine how servers are being utilized. The product is based on SNMP, providing integration with other management products. Insight Version Control allows administrators to **monitor** versions of server **firmware**, drivers, and utilities. **Database** Export allows users to export an Insight Manager database to their preferred database or spreadsheet. The Compaq Remote Insight board and ProLiant Integrated Remote Console...

22/3,K/6 (Item 6 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01925238 SUPPLIER NUMBER: 18182301 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**HP, Informix, GemPlus join to promote smart cards. (Company Business and Marketing) (Brief Article)**

Nicolaisen, Nancy

Computer Shopper, v16, n5, p93(1)

May, 1996

DOCUMENT TYPE: Brief Article ISSN: 0886-0556 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 299 LINE COUNT: 00028

... in the card will provide access and record-keeping for users' credit-card, banking, and other accounts.

As transactions are made, the smart card's **database firmware** --Informix's part of the package--will automatically update records in the appropriate cell. The alliance's long-term plans include making smart-card readers standard equipment in **PC keyboards**, which is already the practice in France, home of GemPlus.

Despite the technology's promise, there are two obstacles to its widespread adoption in the...

22/3,K/7 (Item 7 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01918017 SUPPLIER NUMBER: 18134303 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Exabyte. (Exabyte Corp's Library Reseller Program vendor certification program) (Company Business and Marketing)**  
Biagi, Susan  
Network VAR, v4, n3, p64(1)  
March, 1996  
ISSN: 1082-8818 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 620 LINE COUNT: 00054

TEXT:

Ten-year-old Exabyte, based in Boulder, Colo., built its business on high-performance tape storage, **drives**, **libraries**, media, **firmware**, and software for the backup and storage market. According to Nancy Paquette, channel programs manager, 40 to 45 percent of the company's overall revenues...

22/3,K/8 (Item 8 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01607211 SUPPLIER NUMBER: 14018055 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Zia intros hard disk drive development kit.**  
Stokell, Ian  
Newsbytes, NEW06160006  
June 16, 1993  
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 396 LINE COUNT: 00032

... each daughter board and drive component can be isolated in the system and independently monitored at test locations on the daughter board headers.

The ZIA Hard Disk Drive Development Kit, including development board, **monitor firmware** and core microcode function **library** is priced at \$965, and is available immediately.

(Ian Stokell/19930615/Press Contact: Chris Bradley, 408-370-8246, Zilog; Stephen Bahn, 508-853-5000, Allegro...

22/3,K/9 (Item 9 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01604645 SUPPLIER NUMBER: 13946635 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Color output devices. (Seybold Special Report; electronic publishing color output technologies and trends discussed and products introduced at the Apr 1993 Seybold Seminars in Boston, MA)**  
Alexander, George; Baron, David; Brunner, Laurel; Butler, John F.; Cline, Craig E.; Dyson, Peter E.; Edwards, Stephen E.; Eliezer, Caren  
Seybold Report on Publishing Systems, v22, n16, pS60(7)  
May 19, 1993  
ISSN: 0736-7260 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 7197 LINE COUNT: 00573

... for \$100; extra copies of the guide book cost \$30.

Gretag has new spectrophotometer

Gretag introduced the SPM 55 spectrophotometer, which has a digital Pantone **library** in **firmware**. The SPM 55, priced at \$10,000, provides a PMS number or best match from a spectral analysis of a reading taken of any color media -- print samples, paper or even textiles. The **computer** can also provide lch values for use with color management systems such as EfiColor and FotoFlow.

PCC introduces StripIt

Formerly Professional Computer Center, Professional Computer...

22/3,K/10 (Item 10 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01454292 SUPPLIER NUMBER: 11400873 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Calculating the real cost of software defects. (technical)**

Ward, William T.

Hewlett-Packard Journal, v42, n4, p55(4)

Oct, 1991

DOCUMENT TYPE: technical ISSN: 0018-1153 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2028 LINE COUNT: 00163

... in a standard HP STARS\* database, which has been augmented with additional fields, files, and reporting utilities. All of the products represented in the metrics **database** are **firmware**-based medical devices such as critical care **monitors**, arrhythmia analysis **computers**, and clinical databases.

Figs, 2, 3, and 4 represent various types of useful data that can be extracted from the database. Fig. 2 documents the...

22/3,K/11 (Item 11 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

01068136 SUPPLIER NUMBER: 00611404

**Workstations Support Graphics and Imaging.**

Electronic Imaging, v3, n12, p18

Dec., 1984

DOCUMENT TYPE: product announcement ISSN: 0737-6553 LANGUAGE:

ENGLISH RECORD TYPE: ABSTRACT

ABSTRACT: The Cyberview 100 is a newly developed graphics and image processing workstation from Cybervision. Based on the 83-20 S-100 **computer**, the system features a 20-Mbyte **hard disk**, 8-inch floppy disks, and 512-Kbyte of RAM. When used with the firm's 8086-based frame grabber, the system can display images with resolutions up to 512 X 512 X 8 bits. A **library** of graphics and imaging **firmware** is offered, as well as several software packages that operate under UNIX. A photograph of the Cyberview 100 is included as well as a directory...

22/3,K/12 (Item 1 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2002 The Gale group. All rts. reserv.

04796922 SUPPLIER NUMBER: 17438412 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Another patent horror story.**

Lancaster, Don

Electronics Now, v66, n11, p114(6)

Nov, 1995

ISSN: 1067-9294 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3890 LINE COUNT: 00297

... activity and the peripherals.

Development work is easiest done using assembly tools already in



place for the Apple IIGS. Development by cross-porting from a PC is possible. Fairly extensive subroutine **libraries** are built into the **firmware**.

The list price of the Mench computer by itself is \$365; quantity pricing is well under \$200. With a display and keyboard, the price is...

22/3,K/13 (Item 2 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2002 The Gale group. All rts. reserv.

03160178 SUPPLIER NUMBER: 07124635 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Database Machines: the least-cost route?**  
Gregory, Ed  
Datamation, v34, n21, p85(3)  
Nov 1, 1988  
ISSN: 1062-8363 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2069 LINE COUNT: 00163

... at the University of Minnesota Medical School.  
Britton Lee Inc., Los Gatos, Calif., and Teradata Inc., Los Angeles, are the two major suppliers of these **database** machines, the hardware-**firmware** -software successors to resource-hungry general purpose **computer** databases. Budd recalls being impressed by a benchmark that showed the Britton Lee would perform three-and-a-half times faster than a Digital Equipment...

...leasing, Budd is spending \$38,000 to purchase Britton Lee's low-end BL300 "shared database machine" for use in a diverse network of personal **computers** and workstations.

Budd had previously relied on a Data General S-140 minicomputer-based system that required an hour to complete a standard query selecting...

22/3,K/14 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2002 The Gale Group. All rts. reserv.

02250154 Supplier Number: 58036461 (USE FORMAT 7 FOR FULLTEXT)  
**Stream Machine Enables DVD-Quality, Real-Time Streaming Video; Affordable MPEG-2 Codec and Insta-Replay PCI Card Bring High-Quality Video to Networked PCs.**  
Business Wire, p0496  
Dec 6, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 619

... Insta-Replay reference design is a complete MPEG-2 encoding and decoding PCI card. It is used as a platform to accelerate the development of PC -based digital video and audio add-in board end products, for applications that include: network streaming video, TV tuner board with time shift and digital VCR capability, video capture and playback, consumer video and editing, video surveillance and video email. The Insta-Replay reference design comes complete, including software/ **firmware**, schematics, **bill of materials** (BOM), Gerber files, and user documentation to enable products based on these reference designs to be brought quickly to high volume manufacturing.

Availability  
The SM2210...

22/3,K/15 (Item 2 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2002 The Gale Group. All rts. reserv.

02220300 Supplier Number: 57151540 (USE FORMAT 7 FOR FULLTEXT)  
**ADIC Introduces New Tape Library Platform; Drive-independent Scalar 100**

**First to Support SAN, SCSI and NAS Connectivity Sets New Industry  
Standard for Storage Density.**

Business Wire, p0023

Nov 3, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1397

... management option, provided by another user-installable module. This integrated web server gives remote users the same level of management that they have from the **library** keypad, including **drive** and **library firmware** downloads, pass/fail testing, and single-event operation.

Jonathan Otis, ADIC vice president of product management, commented "Scalar 100 libraries will break new ground in...

22/3,K/16 (Item 3 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2002 The Gale Group. All rts. reserv.

01723711 Supplier Number: 53065612 (USE FORMAT 7 FOR FULLTEXT)

**Sony Boosts AIT-1 Tape Capacity to 35GB.**

Business Wire, p0273

Oct 7, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 692

... A simple firmware upgrade will enable current AIT-1 customers to take advantage of the higher capacity media, and protect their investment in AIT-1 **drives** and **libraries**. All **firmware** enhanced AIT-1 **drives** will read and write both 25GB and 35GB cartridges, while the AIT-2 **drives** will read and write 25GB, 35GB and 50GB media.

The innovative MIC feature, which consists of a memory chip built into the data cartridge, enables...

22/3,K/17 (Item 4 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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01672296 Supplier Number: 50145000 (USE FORMAT 7 FOR FULLTEXT)

**Lexmark's New, Easy-To-Use Print Server Pulls Jobs Off the Network Quickly  
With Fast Ethernet.**

Business Wire, p07061255

July 6, 1998

Language: English Record Type: Fulltext

Article Type: Article

Document Type: Newswire; Trade

Word Count: 715

... s 100Mbps speeds. Lexmark's family of print servers are Web-ready and can be configured through your favorite browser.

Embedded links to technical support, **printer** driver and **firmware** update **databases** and online product registration on the Lexmark Web Site make maintenance easy. The links can be customized to point to customers or reseller intranet sites...

...systems. The MarkNet Pro home page also includes a Java applet that displays status information for the last four jobs printed when an Optra(TM) **printer** is attached.

Key features

The MarkNet Pro print servers include many features that make them easy to setup, configure and manage including:

-- Automatic speed detection...

22/3,K/18 (Item 5 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2002 The Gale Group. All rts. reserv.

01565433 Supplier Number: 47934143 (USE FORMAT 7 FOR FULLTEXT)  
**HP and Database Excelleration Systems Deliver Industry-Leading I/O Performance on HP 9000 T600; HP and DES Combine Technologies to Demonstrate Industry's Best I/O Throughput Performance.**  
Business Wire, p08260214  
August 26, 1997  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 851

... solutions for high-availability, secured-Web-server, distributed-computing, server-consolidation and mainframe-alternative applications.

By combining solid-state memory enhanced with DES-developed DirectAddressing **firmware**, the DES **Database** Excellerator dramatically increases the performance of relational database (RDBMS) applications. By moving key RDBMS "hot files," temporary work areas, transaction logs or indices onto a...

...and dramatic application performance gains averaging 60 percent to 200 percent. DES products also are compatible with Microsoft(R) Windows NT(R)-based HP NetServer PC servers.

ABOUT DATABASE EXCELLERATION SYSTEMS, INC.

Database Excelleration Systems, based in Santa Clara, Calif., is the leading developer and manufacturer of intelligent solid-state systems...

22/3,K/19 (Item 6 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2002 The Gale Group. All rts. reserv.

01293929 Supplier Number: 45554256 (USE FORMAT 7 FOR FULLTEXT)  
**SERCOS/DSP MOTION CONTROLLER**  
News Release, pN/A  
May 22, 1995  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 262

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:

SERCOS/DSP MOTION CONTROLLER Motion Engineering, Inc. (MEI) introduces the new SERCOS/DSP/ PC motion controller. SERCOS (Serial Real-time Communication System) offers a high speed communication between **drives** and controllers over optical fiber. The SERCOS design is superior to conventional analog designs due to higher levels of error checking, immunity to high...

...board buffer keeps the host CPU free for other functions. Communication is synchronous with update rates from 0.5 to 10 milliseconds. The SERCOS/DSP/ PC and all other MEI controllers are programmed through standard C language from a library of over 250 functions. Operating systems supported are DOS, Windows...

...company provides an excellent 24-hour technical support staff and two field offices. A BBS (bulletin board system) is available with the latest sample programs, **libraries**, software/ **firmware** options and documentation.

22/3,K/20 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

04501393 Supplier Number: 58045557 (USE FORMAT 7 FOR FULLTEXT)

**Stream Machine Makes SM2210 MPEG-2 encoder/decoder. (Brief Article) (Product Announcement)**

Semiconductor Industry & Business Survey, v21, n12, pNA

Dec 6, 1999

Language: English Record Type: Fulltext

Article Type: Brief Article Product Announcement

Document Type: Newsletter; Trade

Word Count: 270

... reference designs are available: the Symphony standalone personal video recorder reference design, and the Insta- Replay video capture and playback PCI board reference design for PC applications. Both reference designs are complete, including software/ **firmware**, schematics, **bill of materials** (BOM), ...

22/3,K/21 (Item 2 from file: 636)

DIALOG(R) File 636:Gale Group Newsletter DB(TM)

(c) 2002 The Gale Group. All rts. reserv.

03919668 Supplier Number: 50148992 (USE FORMAT 7 FOR FULLTEXT)

**-LEXMARK: Lexmark's new, easy-to-use print server pulls jobs off the network quickly with fast Ethernet**

M2 Presswire, pN/A

July 9, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 694

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...be configured with a web browser and has custom web links To give customers a super-fast external adapter that reduces network traffic and speeds **printer** throughput, Lexmark International, Inc. today announced the MarkNet Pro 1 10/100BaseTX print server. The adapter delivers performance up to two times faster than the leading competitor. Customers can use Lexmark's external print servers to attach virtually any **printer** to all major network operating systems. The dual-speed MarkNet Pro 1 10/100BaseTX adapter helps customers reduce their total information systems costs by protecting their **printer** investment. Customers can use the MarkNet Pro 1 10/100BaseTX for connectivity to 10BaseT today and 100BaseTX in the future. "Lexmark customers consistently recognize value and performance," said Glenn Hudson, vice president and general manager of attachment products at Lexmark. "This product gives maximum flexibility for attaching **printers** to a network and adds a rich set of features to make configuration, updating and maintenance easy from the desktop or workstation." This new print...

...s 100Mbps speeds. Lexmark's family of print servers are Web-ready and can be configured through your favorite browser. Embedded links to technical support, **printer** driver and **firmware** update **databases** and online product registration on the Lexmark Web Site make maintenance easy. The links can be customized to point to customers or reseller intranet sites...

...purchasing systems. The MarkNet Pro home page also includes a Java applet that displays status information for the last four jobs printed when an Optra **printer** is attached. Key features The MarkNet Pro print servers include many features that make them easy to setup, configure and manage including: \* Automatic speed detection and media detection eliminate the need to set these parameters during installation \* Automatic assignment of IP addresses and intuitive naming of **printers** with DHCP and WINS/DNS support to make setup and operation easier \* Testing with a wide variety of dot matrix, inkjet and laser **printers** to ensure compatibility \* Simultaneous support for all major network protocols - TCP/IP, IPX, DLC/LLC, EtherTalk and TokenTalk \* Flash memory firmware for quick and easy ...

...MarkVision, a powerful tool with an intuitive, graphical user interface for setup and configuration of the MarkNet Pro print servers and a host of useful **printer** management features for network administrators when used with an Optra laser **printer** Pricing and availability The MarkNet Pro 10/100BaseTX Ethernet print server has an estimated street price of \$225 (U.S.). The new MarkNet Pro...

...Lexmark bulletin board service at (606) 232-5238 or the CompuServe forum "Go Lexmark." Lexmark International, Inc. is a global developer, manufacturer and supplier of **printer** solutions and products, including laser, inkjet and dot matrix **printers** and associated consumable supplies for the office and home markets. The company is a wholly owned subsidiary of Lexmark International Group, Inc. (NYSE: L XK). Lexmark...

...Colo.; Juarez, Mexico; Rosyth, Scotland; Orleans, France; and Sydney, Australia. For more information on Lexmark products, including easy-to-use instructions on choosing the right **printer**, visit the Lexmark home page at [www.lexmark.com](http://www.lexmark.com) on the Internet. Customers may also call 1-800-LEXMARK (1-800-539-6275), use the...

22/3,K/22 (Item 3 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

03914070 Supplier Number: 50125690 (USE FORMAT 7 FOR FULLTEXT)  
-MOTOROLA: Smartcards get smarter with new chips from Motorola  
M2 Presswire, pN/A  
July 6, 1998  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1060

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...The hardware crypto co-processor option offers a modular encryption unit with phase locked loop and random number generation on board as well as a **firmware library** of routines. De La Rue commented, "The new crypto chips with large memory capability from Motorola can now easily accommodate multiple applications and will be...

...world's #1 producer of embedded processors, Motorola's Semiconductor Products Sector offers multiple DigitalDNA\* solutions which enable its customers in the consumer, networking and **computing**, transportation, and wireless communications markets, to create new business opportunities. Motorola's semiconductor sales were US\$8.0 billion in 1997. In the global marketplace and services. Major equipment businesses include cellular telephone, two-way radio, paging and data communications, personal communications, automotive, defence and space electronics and **computers**. Corporate sales in 1997 were US\$29.8 billion. More information on the smartcard market can be found on the website at -- <http://www.mot...>

22/3,K/23 (Item 4 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

02117866 Supplier Number: 43936621 (USE FORMAT 7 FOR FULLTEXT)  
SYSTEM SPEEDS DISK DRIVE ELECTRONICS PROTOTYPING  
Data Storage Report, pN/A  
July, 1993  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 387

... library of core microcode functions that provides a foundation for designers to write firmware.

Available immediately, the kit sells for \$965. It includes development

board, **monitor firmware** and core microcode function **library** . Options available include a Signum emulator, 2500AD Assembler/Linker and PLC Assembler/Linker/C Compiler.

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22/3,K/24 (Item 5 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

02108443 Supplier Number: 43907787 (USE FORMAT 7 FOR FULLTEXT)  
**Zia Intros Hard Disk Drive Development Kit 06/16/93**  
Newsbytes, pN/A  
June 16, 1993  
Language: English Record Type: Fulltext  
Document Type: Newswire; General Trade  
Word Count: 372

... each daughter board and drive component can be isolated in the system and independently monitored at test locations on the daughter board headers.

The ZIA **Hard Disk Drive** Development Kit, including development board, **monitor firmware** and core microcode function **library** is priced at \$965, and is available immediately.

(Ian Stokell/19930615/Press Contact: Chris Bradley, 408-370-8246, Zilog; Stephen Bahn, 508-853-5000, Allegro...

22/3,K/25 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

06059245 Supplier Number: 55349538 (USE FORMAT 7 FOR FULLTEXT)  
**A New Read on DLT Tape Libraries. (Digital Linear Tape) (Industry Trend or Event)**  
Clark, Elizabeth  
Network, pNA  
Dec 1, 1998  
Language: English Record Type: Fulltext Abstract  
Document Type: Magazine/Journal; Trade  
Word Count: 3368

... important to evaluate how CPU, memory, disk and tape devices, and their I/O paths will affect each other.

Another major consideration when evaluating DLT **libraries** is the **firmware** they incorporate. **Firmware** controls a number of critical functions, such as SCSI bus communications, error detection and correction, data flow to and from the **drive** , data compression, tape speed, data formatting, and the **library** interface. DLT **drive firmware** also handles implementation of the SCSI protocol (including messages, commands, and options). Two things to look for in a DLT **library** are ease of **firmware** customization and ease of **firmware** upgrades.

When selecting a DLT **library** , find out if it's compatible with your current network operating systems, as well as those you anticipate using in the future. The most common...

22/3,K/26 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

02891404 Supplier Number: 43901144 (USE FORMAT 7 FOR FULLTEXT)  
**Desk Topics: The alliance of Zilog**  
Electronic News (1991), p18  
June 14, 1993  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 80

The alliance of Zilog, International Microelectronic Products and Allegro MicroSystems, or ZIA, introduced a **hard disk drive** development kit for evaluating chipsets controlling disk **drives** with form factors as small as 1 inch. The kit includes a development board for testing ZIA chipsets, or a combination of ZIA ICs and circuits from other vendors. The board also serves as a platform for firmware development. The entire kit, including **monitor firmware** and core microcode function **library**, is \$965.

22/3,K/27 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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01925608 Supplier Number: 42455333 (USE FORMAT 7 FOR FULLTEXT)  
**STDPacks get projects moving**  
Electronic Engineering Times, p98  
Oct 21, 1991  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 246

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
...sys Inc. has introduced a line of "STDPacks," bundled systems with the hardware, software and tools to get a project off the ground quickly. These **computer** kits combine a 16-bit CMOS CPU board, DOS-emulation **firmware**, a multitasking **library** and choice of industrial-control-application packages.

22/3,K/28 (Item 1 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
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02021984  
**MCDONNELL DOUGLAS EXPANDS SUPERMINICOMPUTER LINE: ADDS MID-RANGE SYSTEM**  
News Release August 3, 1988 p. 1

McDonnell Douglas **Computer** Systems Company today announced the expansion of its Series 18 line of superminicomputers with the addition of a middle-of-the-range high volume transaction...

... require. The 18/600 is designed to solve complex business problems utilizing the proprietary McDonnell Douglas REALITY" Operating System that contains performance sensitive portions in **firmware** to maximize the efficiency of **data base** operations. The REALITY Operating System on the 18/600 comes bundled with a recently announced operating system shell, REALITY Integrated System Management (REALISM.), to provide users with the newest and most sophisticated capabilities. These include mainframe class security, **PC** -like inquiry prompts and on-line help, intelligent batch processing, new menu processors for personal menu building, user-oriented common function interfaces and the ability for users to document personal programs on-line. The 18/600 comes with 4 megabytes of memory, two 150 megabyte disk **drives** and 32 ports. Its capacities can be readily expanded to 32 megabytes of memory, 1.5 gigabytes of disk and 240 ports.

Full text available...

22/3,K/29 (Item 2 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
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01623005  
**Solid-state database engine optimized for realtime.**  
ELECTRONIC ENGINEERING TIMES May 4, 1987 p. 42

Ferranti **Computer** Systems' new solid-state database processor is based on CMOS very large scale integration technology and microcoded software. The new unit can access 1,000X...

... offers a low-cost solution to the problem of extracting high throughput with realtime performance from a relational database. The processor is based on specialized **firmware** dedicated to **database** handling.

...

22/3,K/30 (Item 3 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
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01617525

MCDONNELL DOUGLAS EXTENDS HIGH END OF COMPUTER LINE: TOPS INDUSTRY  
STANDARDS FOR SPEED, TRANSACTION SUPPORT.  
NEWS RELEASE March 23, 1987 p. 11

McDonnell Douglas **Computer** Systems Company today announced a new series of relational data base management business **computer** systems that significantly extend the power, transaction processing rates, storage and terminal capacity of its present line of REALITY (R) systems. Designated the Series 18...

... predictably higher throughput even at the maximum number of terminal users. The proprietary REALITY System is designed to allow performance-sensitive portions to reside in **firmware**, thus providing synergistic efficiency of **data base** operations.

...

22/3,K/31 (Item 4 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
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00776770

Amperif introduced a relational data base machine that enables Sperry Univac 1100 series users to increase computer system performance and reduce application development costs.  
MIS Week June 2, 1982 p. 15

The Relational Database Machine (RDM 1100) combines specially-designed hardware, relational **database** management system **firmware** and 1100 Series host software in an integrated package. By offloading database management tasks from the host **computer**, RDM 1100 increases the speed of both the DEMS functions and the application and systems tasks remaining in the host.

...

22/3,K/32 (Item 5 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
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00622469

The most interesting data base machines currently announced will be available only to OEMs.  
Computerworld January 5, 1981 p. 8-12

A data base machine is a **computer** or **computer**-like device whose sole purpose is to execute DBMS ( **data base** management systems) software or **firmware** relative to a coherent data file. A data base machine is not intended to be an independent **computer**, although it can be. It reacts to, and is controlled by, a general-purpose host **computer**. It also requires a disc subsystem to store the related data file. Article assimilates the important new technology of data base machines now and projects its impact on future **computer** installations.

...



22/3,K/33 (Item 6 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
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00494753

Computer software and applications developments in 1980-90 are projected  
by WG Hutchinson of William G Hutchinson & Co Ltd (Toronto, Ont).  
Computer Data June, 1979 p. 58,59

Among the software features which will be introduced in the 1980s are  
pluggable **firmware** modules, multimodule **libraries**, application  
generators, layman's languages, tutorial capabilities, occupational  
languages, distributed data bases, generalized data base management and  
systems software compilers. Application developments will include consumer  
home services, education systems, office information services and  
intelligent communication systems. Home **computer** services will be a \$1.25  
bil industry by the late 1980s. ...

22/3,K/34 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

11668294 SUPPLIER NUMBER: 58614867 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Get maximum pics with minimum bits. (Stream Machine SM2210) (Product

**Announcement)**

Dipert, Brian  
EDN, 44, 26, 16  
Dec 23, 1999

DOCUMENT TYPE: Product Announcement ISSN: 0012-7515 LANGUAGE:  
English RECORD TYPE: Fulltext  
WORD COUNT: 299 LINE COUNT: 00027

... two reference designs: the \$25,000 Symphony stand-alone personal  
video recorder and the \$10,000 Insta-Replay video-capture and -playback PCI  
board for PC applications. Both reference designs include software and  
**firmware**, schematics, a **bill of materials**, Gerber files, and complete  
documentation.

\* Stream Machine, 1-408-435-9166, [www.streammachine.com](http://www.streammachine.com).  
CIRCLE NO. 444

22/3,K/35 (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

09751854 SUPPLIER NUMBER: 19792572 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Lexmark's New, easy-to-use Print Servers Help customers print much faster**

**than the leading competitors' products.**

Business Wire, p9291230

Sep 29, 1997

LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 661 LINE COUNT: 00061

... to help empty print queues faster, reducing waiting for print jobs.  
The MarkNet Pro print servers are Web-ready with embedded links to  
technical support, **printer** driver and **firmware** update **databases** and  
on-line product registration on the Lexmark(TM) Web site. The links can be  
customized to point to customers' or resellers' intranet information  
databases...

...systems. The MarkNet Pro home page also includes a Java applet that  
displays status information for the last four jobs printed when an  
Optra(TM) **printer** is attached.

The MarkNet Pro 3 print servers can be combined with a low-cost modem  
to print incoming faxes on any PostScript Level 2...

22/3,K/36 (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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08351760 SUPPLIER NUMBER: 17845214 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Ricoh's RS-1060C: would-be spectacular meets a competitive market.**  
Bennett, Hugh  
CD-ROM Professional, v8, n12, p107(5)  
Dec, 1995  
ISSN: 1049-0833 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 3782 LINE COUNT: 00310

... failure to support the 1060c's ability to provide for packet writing could prove disappointing to many.

On the other hand, Ricoh has provided some strong **computer** data-oriented capabilities, even if its value to professional audio applications is mixed. For instance, the RS-1060C writes Copy Prohibit, Emphasis, and Serial Copy...

...in the Q channel and reads (but does not record) Uniform Product Code/European Article Number (UPC/EAN) or International Standard Recording Code (ISRC) media **catalog** numbers. The current **firmware** for the 1060C also limits the unit to two index points, no offsets, and does not support the infrequently used R-W subcodes.

RICOH'S...

22/3,K/37 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01797779 04-48770  
**France: Emmanuel Michau**  
Anonymous  
International Tax Review Guide to the World's Leading Information Technology Advisers Supplement PP: 18 Feb 1999  
ISSN: 0958-7594 JRNL CODE: ITR  
WORD COUNT: 201

...TEXT: and other on-line services, advertising and communication, trade mark and domain name, copyright, design and intellectual property generally, cryptography, security, fraud, audiovisual, radio, multimedia, **data bases**, personal information, directories, EDI, software, **firmware**, hardware and **computer** technologies at large, consumer protection, privacy, research and development, transfer of technologies, marketing and distribution, outsourcing, commercial and financial ICT transactions, joint-ventures and other...

22/3,K/38 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

01421118 00-72105  
**Whether volatile or non-volatile, SSD offers blazing speeds**  
Murphy, Robert  
Computer Technology Review PP: 92-95 Spring 1997  
ISSN: 0278-9647 JRNL CODE: CTN  
WORD COUNT: 1147

...TEXT: conventional RAID systems feature as little as 64MB of cache, and lack the capacity for the high read rates demanded by Internet pages or news **databases**. With an easy **firmware** change, SSD **drives** can be used to expand this read cache and significantly boost RAID performance in lowwrite/high-read traffic patterns. SSDs allow both faster cache hit...

22/3,K/39 (Item 3 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

01342559 99-91955

**Date 2000: A practical guide**

Barnes, Roger

Management Accounting-London v74n11 PP: 38-39 Dec 1996

ISSN: 0025-1682 JRNL CODE: MAC

WORD COUNT: 2022

...TEXT: encompasses both systems software and application software in use on mainframes, minis, file-servers and PCs. Systems software includes operating systems, compilers, utilities, development tools, **database** management and **firmware** in use in telecommunications and **computers**. Application software includes packages, bespoke software and macros.

To start with, categorise systems, i.e. corporate systems under the control of the IT department; departmental...

22/3,K/40 (Item 4 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

01089683 97-39077

**Tape libraries not a me-too proposition**

Ferelli, Mark

Computer Technology Review v15n8 PP: 18 Aug 1995

ISSN: 0278-9647 JRNL CODE: CTN

WORD COUNT: 1114

...TEXT: that this rate is three times that of DAT and 2.5 that of 8mm.

The VLS DLT400, which is based on the DLT 4000 **drive**, provides a total storage of 280GB with transfer speeds of up to 180MB/min. The libraries make use of a seven-cartridge magazine, and the overall size of the units permits rack-mounting. Both **libraries** use fourth generation **firmware** that is immediately compatible with applications software from all the leading suppliers of backup and HSM products, including Cheyenne, Palindrome, Arcada, Legato, Avail Systems, Dantz...

22/3,K/41 (Item 5 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

00863834 95-13226

**Many factors govern library choice**

Higgenbotham, Andy

Computer Technology Review v14n4 PP: 27 Apr 1994

ISSN: 0278-9647 JRNL CODE: CTN

WORD COUNT: 1152

...TEXT: address are easily configurable. If you are security conscious, look for lock-out and anti-tampering features. If you anticipate using the library on multiple **computers** or anticipate changing servers later, look for broad compatibility. Some **libraries** feature **firmware** emulation of other tape **drives**. This may or may not be helpful in your particular case. Other devices have LCD read outs on the front panel that show SCSI ID ...

22/3,K/42 (Item 1 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

0200109 91-21708

**24-Bit, Intelligent Chromatography Board Introduced for IBM PC ATs, RS-232**

**Communication Devices**

Flynn, Anne Marie; Tatkow, Mark  
Business Wire (San Francisco, CA, US) s1 p1  
PUBL DATE: 910314  
WORD COUNT: 177  
DATELINE: Marlboro, MA, US

**TEXT:**

...or 4 inputs (2 channels on each of 1 or 2 onboard integrators), and use a hands-off'' design which eliminates the need for the PC AT to be opened, once installed, to change parameters or to add or change instruments. Independent operation is made possible by the onboard microprocessor and...

...time, integration, and automatic methods setup. Developed to assure good laboratory practice, these packages also let MS DOS-based chromatography stations be set up quickly.

**Firmware** , Subroutine **Library** , Diagnostics Maximize Control for OEM System Development

OEMs can access the DT2802 Series hardware directly for maximum control of operation via onboard firmware, which holds...

...are also included.

Data Translation is a world leader in the design, manufacture, and marketing of high performance data acquisition, image processing, chromatography, and multimedia **computer** boards and software.

...

22/3,K/43 (Item 1 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0339489 BW069

**ZILOG IMP ALLEGRO: ZIA introduces semiconductor industry's first hard disk drive development kit**

June 14, 1993

Byline: Business Editors & Computer Writers

...which designers can immediately begin writing firmware and ultimately, improve time-to-volume production.

The ZIA Hard Disk Drive Development Kit, including complete development board, **monitor** **firmware** and core microcode function **library** is available immediately with a U.S. list price of \$965. Development Kit options available for purchase through ZIA include a Signum emulator, 2500AD Assembler...

22/3,K/44 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01151511 CMP ACCESSION NUMBER: NWC19980115S0023  
**Five Stunning Midrange DLT Libraries Put Your Data Down On Tape**  
David A. Harvey  
NETWORK COMPUTING, 1998, n 901, PG116  
PUBLICATION DATE: 980115  
JOURNAL CODE: NWC LANGUAGE: English  
RECORD TYPE: Fulltext

SECTION HEADING: Reviews  
WORD COUNT: 3639

... has been tweaked to better perform with Compaq servers. There are hardware hooks into Compaq Insight Manager and a full device history stored in the library's firmware. One other feature of note: Compaq says it has tweaked DLT7000 drives and added 8 MB of cache as opposed to 1 MB in normal drives, but this option was not available for testing.

HP's unit is a smart library. Start the unit and it performs a thorough inventory. Insert...

---

22/3,K/45 (Item 2 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01042125 CMP ACCESSION NUMBER: VAR19950101S0059  
**Selling Fax on Demand** (Q&)  
Ron Levine  
VARBUSINESS, 1995, n 11, PG127  
PUBLICATION DATE: 950101  
JOURNAL CODE: VAR LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Computer Telephony  
WORD COUNT: 1414

... based (usually IBM-compatible) and run under DOS, Windows, OS/2 or Unix.

The basic components for building a fax-on-demand system are:

A computer with plenty of hard disk space to accommodate image storage and the information database.

A voice board (with associated firmware and software) to provide a voice interface to the caller and to function as the attendant and call director.

A fax board (with associated firmware...

---

22/3,K/46 (Item 3 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

00591782 CMP ACCESSION NUMBER: EET19911021S0991  
**Briefs**  
ELECTRONIC ENGINEERING TIMES, 1991, n 664, 98  
PUBLICATION DATE: 911021  
JOURNAL CODE: EET LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Design: Computers & Software  
WORD COUNT: 459

... sys Inc. has introduced a line of "STDPacks," bundled systems with the hardware, software and tools to get a project off the ground quickly. These computer kits combine a 16-bit CMOS CPU board, DOS-emulation firmware, a multitasking library and choice of industrial-control-application packages.

The STDPacks' CPU board is an 8/16-bit STD bus board based on an 80C186 with 512...

---

22/3,K/47 (Item 1 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2002 Business Wire. All rts. reserv.

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00136475 19991110314B0163 (USE FORMAT 7 FOR FULLTEXT)  
**Stream Machine Makes High-Quality Digital Video Recording Affordable**  
Business Wire  
Wednesday, November 10, 1999 09:03 EST

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 664

...are available: the Symphony(TM) standalone personal video recorder reference design and the Insta-Replay(TM) video capture and playback PCI board reference design for PC applications. Both reference designs are complete, including software/ **firmware** , schematics, **bill of materials** (BOM), Gerber files, and user documentation to enable products based on these reference designs to be brought quickly to high volume manufacturing.

#### Availability

The SM...

22/3,K/48 (Item 2 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2002 Business Wire. All rts. reserv.

00055321 19990607158B0503 (USE FORMAT 7 FOR FULLTEXT)  
**ATL Products Professional Services Introduces SiteCare Data Availability Enhancement Program**  
Business Wire  
Monday, June 7, 1999 09:38 EDT  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 967

...service activities to the customer including the review of NV RAM data from each library and previous six month service records, and will update DLTtape **drive** and/or **library firmware** to current release levels.

25/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

01581804 SUPPLIER NUMBER: 13092745 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Navigating the distribution channel. (trend to rationalization in  
information systems favors minicomputer resellers able to provide many  
value-added services)**  
Diefenbacher, Bob  
MIDRANGE Systems, v6, n1, p38(1)  
Jan 12, 1993  
ISSN: 1041-8237 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1214 LINE COUNT: 00094

... has enabled the IBM OEM business to grow rapidly. By 1994, the company expects \$1 billion from its Personal Systems line of business alone. IBM PC boards , BIOS and other key elements already are finding their way into competing PCs. Part of the reason for this is to soak up excess plant capacity. It also makes the PS/2 architecture...

25/3,K/2 (Item 2 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

01446892 SUPPLIER NUMBER: 11161977 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**How to buy a hard disk. (guide to 10 best hard disks available) (tutorial)  
(buyers guide)**  
Gralla, Preston  
PC-Computing, v4, n9, p150(5)  
Sept, 1991  
DOCUMENT TYPE: buyers guide ISSN: 0899-1847 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2155 LINE COUNT: 00153

... is easy to install, and offers performance comparable to that of a regular hard disk. You'll pay a premium for the convenience, however.  
RELIABILITY Hard disks are about the most reliable component you can find ; if you buy one from a well-known vendor you generally won't go wrong. Manufacturers tout the Mean Time Between Failure (MTBF) ratings of...the rating, there's no way to verify it. If the number is backed with a guarantee, believe it. If not, don't trust it. ROM BIOS Make sure your new hard disk's controller will work with your ROM BIOS . Before buying, check your BIOS's date and make; you may have to get a BIOS upgrade to work with your new disk.  
Here's...

25/3,K/3 (Item 3 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

01352257 SUPPLIER NUMBER: 08154606 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**PC Brand Inc. PC Brand 386/20 Portable III, 386/25 Portable III. (Hardware Review) (one of 30 evaluations of 386-based portable computers in '386/386SX: portables and transportables.') (evaluation)**  
Stone, M. David  
PC Magazine, v9, n5, p179A(2)  
March 13, 1990  
DOCUMENT TYPE: evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 711 LINE COUNT: 00050

... offers an audible click and clear kinesthetic feedback, though the layout is a potentially confusing cross between the original AT layout and the Enhanced-style keyboard .

Inside both units you'll find a PC Brand motherboard with an AMI BIOS and a Chips and Technologies chip set. All memory-up to

16Mb-goes on the motherboard in SIP modules. The tested systems sported four modules of 2MB each...

25/3,K/4 (Item 1 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2002 The Gale group. All rts. reserv.

05496104 SUPPLIER NUMBER: 57564320 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**It ain't over 'til it's over. (potential problems resulting from year 2000 computer transition)**  
Countryside & Small Stock Journal, 83, 6, 116  
Nov, 1999  
ISSN: 8750-7595 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 2075 LINE COUNT: 00158

... potential problems associated with the year Y2K as any other business," says Wayne Hansen of the University of Minnesota Extension, "plus some that are unique."

**Embedded computer chips** pose one of the major Y2K risks to agribusiness. "That's because we **find computer chips** in virtually every **part** of the business," Hansen says. "If a Real Time Clock (RTC) is present in an **embedded chip**, there could be a problem even if the clock is not being used.

"Electronic scales pose a major potential problem," he says. Several models of...

25/3,K/5 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

04470557 Supplier Number: 56981967 (USE FORMAT 7 FOR FULLTEXT)  
**Is Your Farm Y2K-Ready?**  
Fisher, Kate  
National Hog Farmer, pNA  
Nov, 1999  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 328

... and software, while embedded chips have received little attention. Embedded chips are computer chips placed inside equipment, machinery and other non-computer electronic products.

"We **find ( embedded ) computer chips** in virtually every **part** of the business," says Wayne Hansen, University of Minnesota extension educator. They need to be identified and checked for Y2K readiness.

Here's what equipment...

25/3,K/6 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

06496755 Supplier Number: 55193087 (USE FORMAT 7 FOR FULLTEXT)  
**Year 2000 On The Desktop -- Mainframes Have Gotten Most Of The Attention, But Year 2000 Glitches Also Threaten PC Operating Systems, And Applications. (Technology Tutorial)**  
Harbaugh, Logan  
InformationWeek, p59  
July 19, 1999  
Language: English Record Type: Fulltext Abstract  
Document Type: Magazine/Journal; Tabloid; General Trade  
Word Count: 1130

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...a few years old, there shouldn't be any problems. 1 This is not



necessarily the case. There are three major issues with PC systems: **hardware** limits in the **BIOS** and real-time clock, operating-system issues, and application issues. Each has unique problems, and there is no guarantee that just because the hardware or...

...and applications may not be (see the list on p. 60 for more information on year 2000 software and hardware remedies). Some products focus on **finding** and fixing problematic PC **components** (the **BIOS** and real-time clock), while others look for installed operating systems or applications, compare them against a database, and alert the manager to potential problems...

25/3,K/7 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

05452557 Supplier Number: 48266838 (USE FORMAT 7 FOR FULLTEXT)  
**What's In A Symbol**  
Dorsch, Jeff  
Electronic News (1991), p6  
Feb 2, 1998  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 612

... symbol of CHPS. CompUSA, the computer superstore retailer, lets you know what it sells with its symbol of CPU, which calls to mind the old **computer** acronym for "central processing unit."

Infoseek, the Internet **search** software firm, trades as SEEK. Credence Systems is known as **CMOS**; it makes **semiconductor** test equipment that incorporates CMOS circuitry.

On the communications side, there's Sprint, which trades as FON; Osicom Technologies, a wireless communications company, known as...

25/3,K/8 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

12861579 SUPPLIER NUMBER: 67583089 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**PC/104: AN AGING BEAUTY. (Technology Information)**  
Webb, Warren  
EDN, 45, 22, 88  
Oct 26, 2000  
ISSN: 0012-7515 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 2856 LINE COUNT: 00235

... more. Some military projects ask for a 15-year life cycle.

Although the ISA bus is fading on the desktop, it still has advantages for **embedded systems**. Peripheral cards are simple, low-cost, and easy-to-design--all primary requirements of embedded products. The relatively low speed of the ISA bus also...

...manufacturers are producing hundreds of unique PC/104 products. The PC/104 Consortium (www.pc104.org) lists more than 100 members and lets the visitor **search** for **PC /104 components** by manufacturer or type.

Desktop architects have effectively issued a death sentence for the ISA bus. Intel and Microsoft co-author the annual PC-system...

25/3,K/9 (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

09832722 SUPPLIER NUMBER: 18111423 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The embedded PC learns to fly. (airborne computer systems) (includes related articles)**

Shear, David

EDN, v41, n4, p84(13)

Feb 15, 1996

ISSN: 0012-7515

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 7631

LINE COUNT: 00584

... work with the MCI, the Video Blaster worked fine except for a few mapping problems.

The use of Video Blaster illustrates an important advantage of **embedded - PC systems** --inexpensive, readily available **components** . Although you can **find** a dozen or more image boards better suited to FASS/2, Video Blaster was cheap (\$229) and available overnight. In our FASS/2 prototype, Video...

25/3,K/10 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2002 The Gale Group. All rts. reserv.

07314986 SUPPLIER NUMBER: 15592501 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Diverse PCMCIA add-ons present difficult choices. (includes related article on new PCMCIA card slots)**

Legg, Gary

EDN, v39, n10, p43(5)

May 12, 1994

ISSN: 0012-7515

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2924

LINE COUNT: 00225

TEXT:

Adding PCMCIA (Personal Computer Memory Card International Association) card slots to a desktop computer Or an **embedded system** is pretty easy. You just plug in one of the scores of different add-in and add-on PCMCIA card drives that have recently become available. Most of the drives are for PCs, but you can also **find units** for VME, STD, and **PC /104** systems. Prices begin at under \$300.

25/3,K/11 (Item 1 from file: 553)

DIALOG(R)File 553:Wilson Bus. Abs. FullText

(c) 2002 The HW Wilson Co. All rts. reserv.

03791125 H.W. WILSON RECORD NUMBER: BWBA98041125 (USE FORMAT 7 FOR FULLTEXT)

**The best of the Web: the 1998 Webby Award winners.**

Cury, James Oliver

PC World v. 16 no5 (May 1998) p. 215-17+

LANGUAGE: English

WORD COUNT: 36847

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... We merged our separate lists of 33.6-kbps and 56-kbps modems into a single Top 10 this month. It's getting harder to **find 33.6-kbps modems** , and 56-kbps **units** are cheaper than ever--costing less now than some 33.6-kbps modems ever did.

Our Tests Get a Face-Lift

You may wonder why...number four on our color workgroup chart.

Though the Lexmark Optra SC 1275 and the Minolta Color PageWorks share the same engine, their software and **firmware** make them different beasts in several ways. For one thing, the Lexmark prints graphics three times as fast--at 1.0 ppm, it laps the...

25/3,K/12 (Item 2 from file: 553)

DIALOG(R)File 553:Wilson Bus. Abs. FullText

(c) 2002 The HW Wilson Co. All rts. reserv.

03776777 H.W. WILSON RECORD NUMBER: BWBA98026777 (USE FORMAT 7 FOR FULLTEXT)

**Digital processors: more functionality at a lower price.**

Purchasing (Purchasing) v. 124 (Feb. 12 '98) p. 68+

LANGUAGE: English

WORD COUNT: 776

ABSTRACT: The single **chip**, **programmable** -digital-signal-processor (DSP) market will increase from \$3.2 billion to \$8.2 billion in 2001 as prices continue to fall and functionality increases. The chip, an essential **component** in communications and **computers** equipment, will **find** a new range of applications in everything from automobiles to washing machines. DSPs are specialized microprocessors that process large quantities of analog signals and change...

25/3,K/13 (Item 1 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

(c) 2002 ProQuest Info&Learning. All rts. reserv.

01858820 05-09812

**Year 2000 on the desktop**

Harbaugh, Logan

Informationweek n744 PP: 59-62 Jul 19, 1999

ISSN: 8750-6874 JRNL CODE: IWK

WORD COUNT: 1195

...TEXT: only a few years old, there shouldn't be any problems. \* This is not necessarily the case. There are three major issues with PC systems: **hardware** limits in the **BIOS** and real-time clock, operating-system issues, and application issues. Each has unique problems, and there is no guarantee that just because the hardware or...

... and applications may not be (see the list on p. 60 for more information on year 2000 software and hardware remedies). Some products focus on **finding** and fixing problematic PC **components** (the **BIOS** and real-time clock), while others look for installed operating systems or applications, compare them against a database, and alert the manager to potential problems...

25/3,K/14 (Item 2 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

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01568398 02-19387

**Government grapples with the millennium bug**

Dietz, Francis

Mechanical Engineering v120n1 PP: 38 Jan 1998

ISSN: 0025-6501 JRNL CODE: MEG

WORD COUNT: 787

...TEXT: an eye toward correcting those first.

Computers are only part of the y2k problem, however. Telephone systems, fax machines, and other electronic devices often have **embedded** computer **chips** that are date-sensitive. While the y2k focus has thus far been mostly on **computers**, these **components** (which are harder to **find** and test) will have to be fixed as well, adding to the time and cost of the total project.

Morella and Congressman Steve Horn (R...

25/3,K/15 (Item 1 from file: 647)

DIALOG(R) File 647:CMP Computer Fulltext

(c) 2002 CMP Media, LLC. All rts. reserv.

01196550 CMP ACCESSION NUMBER: IWK19990719S0038

Year 2000 On The Desktop - Mainframes Have Gotten Most Of The Attention,  
But Year 2000 Glitches Also Threaten PC Operating Systems, And  
Applications

Logan Harbaugh

INFORMATIONWEEK, 1999, n 744, PG59

PUBLICATION DATE: 990719

JOURNAL CODE: IWK LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: InformationWeek Labs

WORD COUNT: 1133

TEXT:

... a few years old, there shouldn't be any problems. 1 This is not necessarily the case. There are three major issues with PC systems: **hardware** limits in the **BIOS** and real-time clock, operating-system issues, and application issues. Each has unique problems, and there is no guarantee that just because the hardware or...

...and applications may not be ( see the list on p. 60 for more information on year 2000 software and hardware remedies). Some products focus on **finding** and fixing problematic PC **components** (the **BIOS** and real-time clock), while others look for installed operating systems or applications, compare them against a database, and alert the manager to potential problems...

Set	Items	Description
S1	1098	FIRMWARE OR FIRM()WARE OR EMBEDDED(3N)(CHIP? ? OR MICROCHIP? ? OR PART? ? OR ELEMENT? ? OR MODULE? ? OR HARDWARE OR SOFTWARE OR SYSTEM? ? OR PROCESSOR? ? OR MICROPROCESSOR? ?)
S2	944	BIOS OR CMOS OR MICROCODE OR BOOTSTRAP OR PROGRAMMABLE OR - PROGRAMMED
S3	79	S2(3N)(CHIP? ? OR CHIPSET? ? OR MICROCHIP? ? OR BOARD? ? OR HARDWARE OR COMPONENT? ? OR PART? ? OR ROM? ? OR PROM? ? OR EPROM? ? OR EEPROM? ? OR SEMICONDUCT??? OR SEMI(W)CONDUCT??? - OR IC OR ASIC)
S4	23634	DATABASE? ? OR DATA()BASE? ? OR REPOSITOR??? OR INVENTORY(-)MANAGEMENT OR BILL??? (1W)MATERIAL? ? OR CATALOG? ? OR LIBRARY???
S5	48599	COMPUTER? ? OR COMPUTING OR PC OR MONITOR? ? OR PRINTER? ? OR SCANNER? ? OR KEYBOARD? ? OR DRIVE OR DRIVES OR HARD() (DISK? ? OR DISC? ?) OR MODEM? ?
S6	1510	S5(5N)(COMPONENT? ? OR SUBCOMPONENT? ? OR PART? ? OR PIECE? ? OR MATERIAL? ? OR MODULE? ? OR SECTION? ? OR ELEMENT? ? OR UNIT? ? OR BUILDING()BLOCK? ? OR CONSTITUENT? ? OR ASSEMBLY OR ASSEMBLIES OR SUBASSEMBLY OR SUBASSEMBLIES)
S7	34	(S1 OR S3) AND S6
S8	6	S7 AND S4
S9	9	(SEARCH??? OR FIND??? OR QUER??? OR QUERY???) (5N) (S1 OR S3)
S10	15	S8:S9
S11	40	(S1 OR S3) (5N) S4
S12	38	S11 NOT S10
S13	9	S12 AND S5
S14	16	S12 AND (COMPONENT? ? OR SUBCOMPONENT? ? OR PART? ? OR PIECE? ? OR MATERIAL? ? OR MODULE? ? OR SECTION? ? OR ELEMENT? ? OR UNIT? ? OR BUILDING()BLOCK? ? OR CONSTITUENT? ? OR ASSEMBLY OR ASSEMBLIES OR SUBASSEMBLY OR SUBASSEMBLIES)
S15	14	S14 NOT (S10 OR S13)

10/5/1

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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01754994 DOCUMENT TYPE: Product

**PRODUCT NAME: Check 2000 PC Deluxe (754994)**

Greenwich Mean Time UTA LC (663654)  
4301 N Fairfax Dr #400  
Arlington, VA 22203 United States  
TELEPHONE: (703) 908-6600

RECORD TYPE: Directory

CONTACT: Sales Department

Check 2000 PC Deluxe is a thorough system for testing standalone PCs and their software for Y2K compliance. It includes an enormous reference containing Year 2000 remediation advice. The system **finds** and fixes **hardware / BIOS** problems. Check 2000 PC Deluxe also scans operating systems, software applications, and data files such as spreadsheets and databases for Y2K problems. It can check incoming Internet files, disks, CD-ROMs, and e-mail for problems as often as the user wishes.  
DESCRIPTORS: Project Cost Estimating; Y2K (Year 2000); Program Development  
; File Conversion; Computer Equipment; Language Processors; IT Management

HARDWARE: IBM PC & Compatibles  
OPERATING SYSTEM: Windows; Windows NT/2000  
PROGRAM LANGUAGES: Not Available  
TYPE OF PRODUCT: Micro  
POTENTIAL USERS: Cross Industry, MIS  
PRICE: Available upon request

DOCUMENTATION AVAILABLE: Videotape documentation  
OTHER REQUIREMENTS: 16MB RAM; Win 9x+; 30MB disk space required  
REVISION DATE: 990929

10/5/2

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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01721484 DOCUMENT TYPE: Product

**PRODUCT NAME: Y2KPCPro 3.7R (721484)**

RighTime Clock Co Inc (652601)  
80 SW 8th St #2804  
Miami, FL 33130 United States  
TELEPHONE: (305) 577-6400

RECORD TYPE: Directory

CONTACT: Sales Department

Y2KPCPro from RighTime Clock Company is a Y2K (Year 2000) scanner. It determines whether the user's systems are Y2K-compliant. It corrects date/time problems that it **finds** in **CMOS hardware**. Y2KPCPro's **hardware** checking routines have been approved for use by U.S. government and military agencies. Y2KPCPro continuously monitors the computer's BIOS for problems, correcting systems only when required. It is easy to install, compatible with common applications and OSs, and has been used to correct more than 3,000,000 computers.

DESCRIPTORS: Y2K (Year 2000); Project Cost Estimating; IT Management;  
Network Administration; LANs; Computer Equipment

HARDWARE: IBM PC & Compatibles  
OPERATING SYSTEM: Windows; OS/2; NetWare; DOS  
PROGRAM LANGUAGES: Not Available  
TYPE OF PRODUCT: Micro  
POTENTIAL USERS: PC Users, Cross Industry  
DATE OF RELEASE: 01/1997  
PRICE: Available upon request; depends upon number of machines

REVISION DATE: 991103

10/5/3

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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01104698 DOCUMENT TYPE: Product

PRODUCT NAME: Intel IXA Software Developers Kit 2.01 & 3.0 (104698)

Intel Corp (097551)  
2200 Mission College Blvd PO Box 58119  
Santa Clara, CA 95052-8119 United States  
TELEPHONE: (408) 765-8080

RECORD TYPE: Directory

CONTACT: Sales Department

Intel's Intel (R) Internet Exchange Architecture (IXA) Software Developers Kit (SDK) provides development tools for Intel IXP1200 network processors (Intel IXA SDK 2.01) and Intel IXP2400 and IXP2800 network processors (Intel IXA SDK 3.0). Intel IXA SDK 2.01 includes the Active **Computing Element** (ACE) programming framework, which speeds development processes. Intel IXA SDK 2.01 supports Big-endian embedded Linux and VxWorks operating systems. It includes a cycle accurate simulator for IXP1200 microengines and hardware interfaces. It also supports the Intel Microengine C compiler. The SDK includes code assembler, IXP macro **library**, optional C runtime **library**, debugger, performance profiler, packet generator tools. Intel IXA SDK 3.0 for Intel IXP2400 and IXP2800 network processors features an integrated microengine development environment, which offers graphical simulation, profiling, and debugging features. Intel IXA SDK 3.0 supports efficient prototyping and user application optimization processes. It supports parallel software and hardware engineering projects. Intel IXA SDK 3.0 also supports the development of modular, portable code. It includes **microcode** and Microengine C **hardware** abstraction, protocol, and utility **libraries**. The SDK also includes a packet generator and foreign model interface tools.

DESCRIPTORS: Components; Cross Development; **Embedded Systems**; Network **Software**; Program Development; Real Time Data Acquisition

HARDWARE: IBM PC & Compatibles; Proprietary Hardware  
OPERATING SYSTEM: Linux; Windows NT/2000  
PROGRAM LANGUAGES: Assembly Languages; C  
TYPE OF PRODUCT: Micro; Workstation  
POTENTIAL USERS: Intel IXA Developers  
PRICE: Available upon request  
REVISION DATE: 020926

10/5/4

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00138751 DOCUMENT TYPE: Review

PRODUCT NAMES: smARTSspeak NG (596124); Voice Search Engine (VCE)  
(107565)

**TITLE:** Aural Arguments: Voice input is making its case for inclusion in...  
**AUTHOR:** Suydam, Margot  
**SOURCE:** commVerge, v3 n4 p30(6) Apr 2002  
**ISSN:** 1531-7838  
**HOME PAGE:** <http://www.commvergemag.com>

**RECORD TYPE:** Review  
**REVIEW TYPE:** Product Analysis  
**GRADE:** Product Analysis, No Rating

Advanced Recognition Technologies' smARTspeak NG, Phonetics' Voice Search Engine, and Q Comm International's Qxpress are highlighted in a discussion of the use of voice input technology in wireless devices and services. Voice is known to be the most natural of all user interfaces, and many in the industry are optimistic that speech recognition is finally coming into its own due to the emergence of such standards as VoiceXML, which allows Internet content and information to be accessible via voice and telephones. One market analysis firm, for instance, forecasts a voice recognition market in 2005 worth \$2.7 billion, and another estimate puts the value of speech-related services in 2005 at \$41 billion. A primary motivator for voice recognition implementation is the evolution of pervasive computing as users seek easier ways to use convergence devices. For instance, voice-activated dialing is standard on most high-end cell phones because it eases dialing on very small mobile handsets and is less of a distraction when driving. However, speech recognition technology still has difficult challenges to overcome, including development of a truly natural input language. One example of an advanced product is Sound Advantage Natural Dialog Interface (SANDi), an all-software unified communications system that makes PBXes, voice mail, faxing, e-mail, and customer relationship management (CRM) speech-enabled. Among topics covered are Phonetics' Voice Search Engine; **embedded recognition software**; automation requirements for networked applications; and smARTspeak, which provides voice-enabled name dialing, and continuous digit dialing.

**COMPANY NAME:** Advanced Recognition Technologies Inc (614033); Phonetic Systems Inc (649007)  
**DESCRIPTORS:** Computer Telephony; Front Ends; IVR (Voice Response); Search Engines; Speech Recognition; User Interfaces; Wireless Networks  
**REVISION DATE:** 20020930

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DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00135507                      **DOCUMENT TYPE:** Review

**PRODUCT NAMES:** Ask Jeeves (743241); Berkeley DB Data Store (015946)

**TITLE:** Natural Language Navigation Made Simple  
**AUTHOR:** Gomez, Traude  
**SOURCE:** Database Trends, v15 n10 p1(2) Oct 2001  
**ISSN:** 1089-019X  
**HOME PAGE:** <http://www.dbtr.com>

**RECORD TYPE:** Review  
**REVIEW TYPE:** Product Analysis  
**GRADE:** Product Analysis, No Rating

Ask Jeeves employs Sleepycat Software's Berkeley DB Data Store in its natural language Internet search engine. Berkeley DB is an open-source embedded database system originally developed at the University of California, Berkeley in 1991. Ask Jeeves selected Berkeley DB as the basis for its search Web site because the technology offered a flexible development environment. Additionally, Berkeley DB processed queries quickly. Finally, the database engine was scalable. According to Tom Harrison, Ask Jeeves' vice president of product development, Berkeley DB



Data Store is also stable. Because the Ask Jeeves service focuses on read-only transactions, the business was able to employ Berkeley DB with little modification. Beyond programming, performance, and scalability benefits, however, Berkeley DB was far less expensive than products offered by Oracle and other vendors. Deployment costs for the system came in at \$10,000, with most expenses centering on support demands. Ask Jeeves programmers have used Berkeley DB Data Store in developing search features for several corporate Web sites.

COMPANY NAME: Ask Jeeves Inc (655708); Sleepycat Software Inc (686638)  
DESCRIPTORS: **Embedded Systems** ; Natural Languages; Open Source; **Search Engines**  
REVISION DATE: 20020630

10/5/6  
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00117115 DOCUMENT TYPE: Review

PRODUCT NAMES: Centennial 2000 Pro Enterprise Edition 2.1 (756962); Check 2000 Client Server 3.11 (756971); Norton 2000 Enterprise Edition 1.0 (756989); Express 2000 Software Manager 4.0 (744352); ADAPT/PC-2000 (729621)

TITLE: Year-2000 assessment tools: Time waits for no one  
AUTHOR: Wonnacott, Laura Biggs, Maggie  
SOURCE: InfoWorld, v21 n22 p64(7) May 31, 1999  
ISSN: 0199-6649  
HOMEPAGE: <http://www.infoworld.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Comparison  
GRADE: Product Comparison, No Rating

Centennial International's Centennial 2000 Pro Enterprise Edition 2.1, Greenwich Mean Time-UTA's Check 2000 Client Server 3.11, Symantec's Norton 2000 Enterprise Edition 1.0, and WRQ's Express 2000 Software Manager 4.0 with NeoMedia's ADAPT/ PC 2000 are **components** of compared Y2K assessment tool solutions. The solutions from WRQ, Centennial, Symantec, and GMT are compared for ease of use and implementation; reliable results; scalability over disparate systems; flexibility for central control; and useful documentation and support. WRQ, with good marks overall, is the editors' choice, since it provides a thorough set of testing tools in Express 2000 Software Manager 4.0 for **hardware** and **BIOS** configuration, and ADAPT/PC 2000 for analysis of data files. The combo provides a reliable testing environment and central resource to all data gathered, without providing a glut of features. WRQ's solution automatically updates a **repository** of PCs, and it refreshes the application compliance **database** on a monthly basis. Centennial's solution takes second place, and is easy to install and manage over a network. Symantec's solution, when linked with Centennial, is easy to install over a network and has excellent application and data analysis features. GMT's solution brings up the rear, because it is less scalable and flexible than the other products, but it has high-quality application and data scanning abilities.

COMPANY NAME: Centennial International (654485); Greenwich Mean Time UTA LC (663654); Symantec Corp (386251); WRQ Inc (368113); NeoMedia Technologies Inc (643351)  
SPECIAL FEATURE: Charts Tables Screen Layouts  
DESCRIPTORS: Computer Equipment; File Conversion; Network Administration; Network Inventory; Network Software; Project Cost Estimating; Y2K (Year 2000)  
REVISION DATE: 20020630

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DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00116554 DOCUMENT TYPE: Review

PRODUCT NAMES: VINES 8.5 (695912); NetWare 5.0 (699683); UnixWare 7.0 (695068); Microsoft Internet Information Server (591645); OS/2 Warp Server (557641)

TITLE: Server operating systems need tender Y2K care (Part 2)

AUTHOR: Burns, Christine

SOURCE: Network World, v16 n15 p14(1) Apr 12, 1999

ISSN: 0887-7661

HOME PAGE: <http://www.nwfusion.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Banyan Systems' VINES 8.5, Novell's NetWare 5.0, Santa Cruz Operation's UnixWare 7.0, IBM's OS/2 Warp Server, and Microsoft Internet Information Server (IIS) are among operating systems compared for Y2K compliance and actions still needed to make them Y2K-compliant. VINES, IBM AIX 3.1 and earlier, and NetWare 3.2, 4.2, or 5.0 are all fully Y2K-compliant, and need no further work to make them so. In many cases, users will simply have to apply free patches to their systems. However, NetWare 2.x, 3.11 or earlier, and NetWare 4.0 users will have to upgrade to NetWare 3.2, 4.2, or 5.0. HP-UX 9.0 users and earlier will have to upgrade to HP-UX 11.0, and UnixWare 1.x and 2.x users will have to upgrade to UnixWare 7.0 and also install patches. When evaluating server OSs for Y2K compliance, users should find out if the software can read dates later than 1999. In addition, if the software receives a wrong date from an old **hardware BIOS**, the user should **find** out if the server OS will make the correction or send it on to applications. Most enterprise networks currently have servers running various server OSs, a situation that complicates Y2K compliance checking. A survey indicates that most server OSs need Y2K work, and that in over half of instances, users will have to upgrade to the latest version of the server OSs.

COMPANY NAME: Banyan Systems Inc (376639); Novell Inc (344893); SCO Group Inc (604496); Microsoft Corp (112127); IBM Corp (351245)

SPECIAL FEATURE: Tables

DESCRIPTORS: AIX; Banyan; HP-UX; IIS; LAN Server; LANs; NetWare; Network Servers; Operating Systems; OS/2; UNIX; Web Servers; Y2K (Year 2000)

REVISION DATE: 20021024

10/5/8

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00110876 DOCUMENT TYPE: Review

PRODUCT NAMES: Debug/RT (532495); VisualProbe Remote Debug (717975); QNX Realtime Operating System (010065); Tornado Windows (593788); MULTI Software Development Environment (360554)

TITLE: X86 debuggers interact with OSs, provide more than source-level tr...

AUTHOR: Bishop, Brian L

SOURCE: Personal Eng & Instrumentation News, v15 n7 p22(5) Jul 1998

ISSN: 0748-0016

HOME PAGE: <http://www.pein.com>

RECORD TYPE: Review

REVIEW TYPE: Product Comparison

GRADE: Product Comparison, No Rating

Paradigm's Debug/RT, Beacon's Visual Probe Remote Debug, QNX Software's QNX Realtime Operating System, Wind River's Tornado for Windows, and Green Hills' Multi IDE are among X86 debuggers described that interact with operating systems when data originating in hardware flows through device drivers into application code. An emulator stops program execution completely, while a debugger allows continuation of other tasks, threads, or processes in an application other than the one causing a problem. Debug is a third-party debugger, and supports development under DOS, Windows 3.1, Windows 95, and Windows NT. It ships with useful **libraries** for various real-time kernels, including SMX, AMX, RTXC, muC/OS, and Nucleus. Another third-party debugger, Visual Probe Remote Debug, supports thread-aware debugging of AMX, RETX, Nucleus, pSOS, and SMX kernels. QNX, an X86-only debugger, supports only self-hosted development. The user formats the **hard disk** or **part** of it, loads the OS, and develops real-time code for either desktop or embedded targets. Tornado for Windows is from a vendor that supports multiple 32-bit processors, including 386+, using the Gnu-based compiler and debugger. Multi is part of a compiler suite; rather than being closely integrated with a specific OS, it integrates with the vendor development environment, which also includes a compiler-aware text editor, class browser, code profiler, run-time error detector, version control utility, and a make replacement.

COMPANY NAME: Paradigm Systems Inc (452262); Lineo Inc (672572); QNX Software Systems Ltd (366927); Wind River Systems Inc (472115); Green Hills Software Inc (128694)  
SPECIAL FEATURE: Screen Layouts  
DESCRIPTORS: CAE; Debuggers; DOS; **Embedded Systems**; IBM PC & Compatibles; Program Development; QNX; Real Time Data Acquisition; Windows; Windows NT/2000  
REVISION DATE: 20020923

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DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00109242 DOCUMENT TYPE: Review

PRODUCT NAMES: Microsoft Windows CE 3.0 (633119); Microsoft Windows CE 2.1 (633119)

TITLE: Windows CE Invades Embedded Systems  
AUTHOR: Bournellis, Cynthia  
SOURCE: Electronic News, v44 n2214 p1(2) Apr 13, 1998  
ISSN: 1061-6624  
HOMEPAGE: <http://www.interport.net/enews>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

Microsoft's Microsoft Windows CE, though not as fast as high-end real-time operating systems like Microtec's VRTX, is **finding** a new niche in **embedded systems** because Microsoft is now offering an embedded systems track to accelerate the building of Windows CE applications and announcing partnerships with many value-added distributors and systems integrators. Windows CE 3.0, due in the first half of 1999, will add hard real-time capabilities. New real-time enhancements will be added support for nested interrupts and improved thread response of below 50 microseconds, which will allow developers to find out exactly when thread transitions occur. The current version 2.1 of Windows CE includes an upgraded embedded toolkit that supports many new microprocessors such as ARM, StrongARM, PowerPC 823, and SH4 from Hitachi. Windows CE's modular design lets developers pick software module sets for customizing products and allows for the design of embedded systems incorporating a minimum set of software modules. Another new market for Windows CE is AutoPC, an embedded systems category that is also new for Windows CE.

COMPANY NAME: Microsoft Corp (112127)  
SPECIAL FEATURE: Photographs  
DESCRIPTORS: Embedded Systems; Handhelds & Palmtops; Operating Systems;  
Windows CE  
REVISION DATE: 19990630

10/5/10

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00100233 DOCUMENT TYPE: Review

PRODUCT NAMES: Java (573744); Java Virtual Machine (614106)

TITLE: Java code brews for embedded-net apps

AUTHOR: Duvuurr, Sreeram Rodriguez, John

SOURCE: Electronic Engineering Times, v932 p70(3) Dec 16, 1996

ISSN: 0192-1541

HOME PAGE: <http://www.eet.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Sun Microsystems' Java and Java Virtual Machine are the preferred language and enabling technology for development of Internet applications and other network software. Java programs run on top of a nominal machine specification, JVM. JVM includes Java byte codes; their execution semantics; the method for Java program execution on the stack; supported data types; and a few machine-status registers. The JVM can be deployed in one of a few equivalent, viable manners, and developers can create systems with various compatibilities, price, and performance options. Java appeals to Internet software developers especially for its hardware and OS independence. Hardware neutrality is the result of the lucid specification of the language and its data types. Unadulterated software implementations of the JVM require interpretation of Java byte codes through byte-code interpreters. Therefore, these implementations are slower than native code. The JVM can also be implemented with various levels of compiler and hardware assistance, including economical JavaChip technology. When byte codes are directly executed in silicon, instead of through software layers, the best Java performance is obtained. **Embedded systems** designers may find Java irresistible in implementing their designs through the JVM, which allows support and upgrading of existing embedded processors.

COMPANY NAME: Sun Microsystems Inc (385557)

SPECIAL FEATURE: Tables

DESCRIPTORS: Electronics; Embedded Systems; Integration Software; Internet Utilities; Java; Programming Languages

REVISION DATE: 20010330

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DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00099266 DOCUMENT TYPE: Review

PRODUCT NAMES: Microsoft Windows 95 (291293); Microsoft Windows 95 (554375); Microsoft Windows NT (359947); Microsoft Internet Explorer 4.0 (617059); Microsoft ActiveX (617041); OS/2 Warp 4.0 (535711)

TITLE: Web browsers: the future OS?

AUTHOR: Casselman, Grace

SOURCE: INFO WORLD CANADA, v21 n11 p1(2) Nov 1996

ISSN: 1187-7081

RECORD TYPE: Review

REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

Microsoft's Microsoft Windows 95, Microsoft Windows NT, Microsoft Internet Explorer (IE) 4.0, and ActiveX, and IBM's OS/2 Warp 4.0 are part of a discussion of Windows browsers' potential as the operating systems (OSs) of the future. The Internet is becoming more firmly entrenched in users' minds as the computing platform of the future, and intranet communications models are beginning to dominate corporate IT infrastructures. Therefore, the desktop OS could be losing ground to the World Wide Web browser. The line between the two technologies is beginning fade, says an analyst, because Web browsers with graphical user interfaces (GUIs), including Windows', have to compete with Web browsers. However, if an OS is defined as the technology that runs the hardware and software internals of a computer, OSs are still far more complex than any Web browser of the present or the near future. The analyst is convinced, however, that just as BIOS has become part of a PC's hardware, other OS features will become hardware-based, while interfaces merge with browsers. This is because users like the ease of use of a browser-based GUI, and will want to use it for more applications. Marc Andreessen has written that the full-service intranet uses a group of open standards and protocols that emerge from the Internet. Open standards support such applications as e-mail, groupware, security, directory, information sharing, **database** access, and management.

COMPANY NAME: Microsoft Canada (464627); IBM Canada Ltd (466182)  
SPECIAL FEATURE: Screen Layouts  
DESCRIPTORS: ActiveX; Conferencing; Front Ends; IBM PC & Compatibles;  
Internet Browsers; Internet Explorer; Intranets; Operating Systems;  
OS/2; Windows; Windows NT/2000  
REVISION DATE: 20010730

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DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00098898 DOCUMENT TYPE: Review

PRODUCT NAMES: PowerBuilder Window Plug-In (647322)

TITLE: Plugging into the Web  
AUTHOR: Gulesian, Marcia  
SOURCE: DBMS, v9 n13 p69(3) Dec 1996  
ISSN: 1041-5173  
HOMEPAGE: <http://www.dbmsmag.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

An application developed with Sybases's Powersoft Division's PowerBuilder Window Plug-In (Plug-In) allows users to rehost a client/server application to run on a World Wide Web browser. Plug-In permits full-fledged PowerBuilder applications to run in a plug-in-ready World Wide Web browser, including Netscape Communications' Netscape Navigator 2.0 or later and Microsoft's Microsoft Internet Explorer 3.0 or later. The interface now focuses on the browser, because plug-ins provide a unified way for applications to show information and to interface with the browser's operator. The **modules** are programs installed on the **hard disk** to expand the functionality of the Web browser. Plug-ins can have embedded, full-screen, or hidden operational modes. An **embedded** one is **part** of a bigger Hypertext Markup Language (HTML) document and is viewed as a rectangular frame in a page. A full-screen plug-in is an autonomous viewer, and a hidden plug-in runs in the background. A PowerBuilder application is a group of windows that do related functions such as order entry, accounting, or manufacturing. The test application developed allows a food company to choose a recipe and enter the number of servings, and the program converts quantity and unit data to values appropriate to the scale

needed. Topics covered include the application; stored procedures; overall system design; and DataWindow plug-ins.

COMPANY NAME: Sybase Inc (414981)  
SPECIAL FEATURE: Screen Layouts Charts  
DESCRIPTORS: Client/server; **Database** Management; Internet Utilities;  
Network Software; PowerBuilder; Program Development  
REVISION DATE: 20010330

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DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00096906 DOCUMENT TYPE: Review

PRODUCT NAMES: QAPLus 2 for OS/2 (270652)

TITLE: DiagSoft's QAPLus/2  
AUTHOR: Schindler, Esther  
SOURCE: OS/2 Magazine, v3 n10 p62(2) Oct 1996  
ISSN: 1073-1547  
HOMEPAGE: <http://www.mfi.com>

RECORD TYPE: Review  
REVIEW TYPE: Review  
GRADE: A

DIAGsoft's QAPLus 2 tells OS/2 users if a computer system's hardware works and if not, it tells users what failed and why. Installation is uneventful, and QAPLus is capable of testing the major subsystems of a desktop or laptop computer. The system board is examined by the software, as is RAM, the video card, serial and parallel ports, mouse, and keyboards. Floppy, hard disk, and CD-ROM drives are also looked at. Some component tests get more testing emphasis than others, including memory tests. A SIMM locator assists in finding which memory board is malfunctioning, and QAPLus also does a fast system test; this last function is useful for manufacturers that want to be sure that a computer works before shipping it. QAPLus reports system information, including **CMOS** data and a **hardware** summary, reporting **BIOS** information by **querying** OS/2. During tests, no problems were encountered, but QAPLus requires a sound card to operate. A test was devised using discarded parts, and QAPLus found all problems and reported bad tracks on a defective hard disk. QAPLus does not test for IRQ conflicts, and it ignores network cards and multimedia hardware. QAPLus is recommended as a utility that can help OS/2 users nail down the origins of hardware problems.

PRICE: \$130

COMPANY NAME: Sykes Enterprises inc (482846)  
SPECIAL FEATURE: Screen Layouts  
DESCRIPTORS: Computer Diagnostics; Computer Equipment; IBM PC &  
Compatibles; OS/2; System Performance; System Utilities; Technical  
Support  
REVISION DATE: 20010930

10/5/14

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00093040 DOCUMENT TYPE: Review

PRODUCT NAMES: Real Time Data Acquisition (830309)

TITLE: Try PC /104 modules for real-time design  
AUTHOR: Lehrbaum, Rick  
SOURCE: Electronic Engineering Times, v895 p60(3) Apr 1, 1996

ISSN: 0192-1541  
HOMEPAGE: <http://www.eet.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

PC /104 modules are easy and cost-effective to design, prototype, debug, and implement in an **embedded system**. Hardware reflects the object-oriented (OO) software methods, and a PC/104-based system can become a real-time machine using various real-time software options, including **libraries**, executives, and operating systems. To add real-time support to a PC/104-based application, a multitasking function **library** can be used. The advantages of this method include reduced complexity for the developer, function **libraries** with full source code for debugging, low initial outlay, and elimination of the need to pay royalties. Contrarily, a real-time function **library** is limited to such features as task and queue management, task switching, and event synchronization. Real-time executives provide more system support than multitasking **libraries** and are generally sold as **modules**, with a core kernel **component**. PC /104-based real-time executives also support operation with DOS.

COMPANY NAME: Vendor Independent (999999)  
DESCRIPTORS: CAE; Electrical Engineering; Electronics; **Embedded Systems**; OOP (Object Oriented Programming); Program Development; Real Time Data Acquisition  
REVISION DATE: 20020228

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DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00086850 DOCUMENT TYPE: Review

PRODUCT NAMES: CodeTest (598089)

TITLE: **Embedded Systems Software Gets A Much Needed Renovation**  
AUTHOR: McLeod, Jonah  
SOURCE: Integrated System Design, v7 n77 p8(1) Nov 1995  
ISSN: 1067-9804  
HOMEPAGE: <http://www.asic.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

CodeTest from Applied Microsystems is a modern design verification tool designed to **find** problems in many **embedded systems** applications, including laser printers, video games, engine control, automating braking systems, and other applications that use microcontrollers to guide electromechanical apparatus. The tools should help software development move closer to hardware development in terms of reliability. Because the quantity of code in embedded processors continues to increase, and because software can be so easily modified, the Software Engineering Institute at Carnegie-Mellon Engineering Institute devised the Capability Maturity Model for Software to establish process adherence enforcement for software. The five-level model defines software quality and process management requirements.

COMPANY NAME: Applied Microsystems Corp (514179)  
DESCRIPTORS: CAE; Embedded Systems; Mechanical Engineering; Program Development; Quality Assurance  
REVISION DATE: 20000630

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DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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02646342 DOCUMENT TYPE: Company

**NewMonics Inc (646342)**

3030 Warrenville Rd #260  
Lisle, IL 60532 United States  
TELEPHONE: (630) 577-1590  
FAX: (630) 579-9136  
HOMEPAGE: <http://www.newmonics.com>

RECORD TYPE: Directory

CONTACT: Sales Department

ORGANIZATION TYPE: Corporation

STATUS: Active

NewMonics Incorporated, based in Illinois, offers customers Java- based embedded system products and services, such as its PERC (R) software. The product encompasses programmer productivity tools and reusable **components**. PERC is compatible with Java 1.3 and **embedded system libraries**. Aside from products, NewMonics provides consulting services and training to embedded system developers. The company has formed alliances and partnerships with VenturCom Incorporated, PointBase (R), Phar Lap Software Incorporated, and Microsoft (TM). The VenturCom partnership has produced a real-time, Java-based Microsoft Windows control engine. NewMonics has merged PERC with PointBase **databases**. The combined technology streamlines **embedded system** development processes. NewMonics has combined PERC technology with partner Phar Lap Software's real-time ETS Kernel. The company also partners with Microsoft in promoting third- **party** embedded system tools.

SALES: NA

PERSONNEL: Nilsen, Kelvin, President

DESCRIPTORS: Embedded Systems; Program Development

REVISION DATE: 20021020

15/5/2

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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01696137 DOCUMENT TYPE: Product

**PRODUCT NAME: GOFAST (696137)**

US Software Corp (564397)  
7175 NW Evergreen Pkwy #100  
Hillsboro, OR 97124 United States  
TELEPHONE: (503) 844-6614

RECORD TYPE: Directory

CONTACT: Sales Department

GOFAST includes high performance ANSI C-compatible 16- and 32-bit floating point and emulates designed to directly replace a C compiler's runtime floating point support. There are also many specific GOFAST floating point libraries and emulators for 8-, 16- and 32-bit realtime, **embedded processors**. GOFAST **libraries** are selected when reentrancy and/or performance is critical.

DESCRIPTORS: Multitasking; Program Development; **Components**; Emulators;



Embedded Systems; Real Time Data Acquisition

HARDWARE: Hardware Independent; Sun; IBM PC & Compatibles  
OPERATING SYSTEM: Open Systems  
PROGRAM LANGUAGES: C  
TYPE OF PRODUCT: Micro; Workstation  
POTENTIAL USERS: Cross Industry  
PRICE: Available upon request

DOCUMENTATION AVAILABLE: User manuals  
TRAINING AVAILABLE: Training; technical support; support contracts  
available  
SERVICES AVAILABLE: Custom programming  
REVISION DATE: 010510

15/5/3

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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01627861 DOCUMENT TYPE: Product

**PRODUCT NAME: Embedded EMPRESS Developers Toolkit 8.20 (627861)**

Empress Software Inc (336475)  
6401 Golden Triangle Dr #220  
Greenbelt, MD 20770 United States  
TELEPHONE: (301) 220-1919

RECORD TYPE: Directory

CONTACT: Sales Department

Embedded EMPRESS Developers Toolkit 8.20 features an ANSI SQL technical database, EMPRESS RDBMS, for developers of data-intensive, embedded applications on platforms ranging from UNIX workstations to Windows NT/95-based PCs. EMPRESS RDBMS offers advanced performance in the handling of fixed and variable length text and bulk data. Several included interfaces give users host-level access for greater control in database tuning. Internet interfacing tools, which are **part** of this software suite, create interactive, database-fed Web pages or intranet applications. Kernel Level Interface Routines allow developers to increase database optimization and multilevel control in the Empress-layered architecture. EMPRESS's small Footprint feature enhances the use of RDBMS for embedded applications. Micro-Second Time Stamps enable users to store and retrieve the occurrence of real-time systems events down to a millionth of a second. Unlimited attributes and file indexes optimize system performance. An optional EMPRESS JDBC Interface is available for this suite.

DESCRIPTORS: Program Development; **Database** Management; Multimedia;  
**Embedded Systems**

HARDWARE: Sun; UNIX; DEC; HP; IBM; Silicon Graphics; IBM PC & Compatibles  
OPERATING SYSTEM: QNX; Solaris; SunOS; HP-UX; UNIX; AIX; IRIX; Linux;  
Windows NT/2000; Windows  
PROGRAM LANGUAGES: C; SQL  
TYPE OF PRODUCT: Mainframe; Mini; Micro; Workstation  
POTENTIAL USERS: Imaging, Network Management, Medical Diagnostics,  
Government, Military  
DATE OF RELEASE: 01/96  
PRICE: Available upon request

DOCUMENTATION AVAILABLE: User manuals  
TRAINING AVAILABLE: Training; telephone support; technical support  
OTHER REQUIREMENTS: 32MB RAM required  
REVISION DATE: 990512

15/5/4

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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01053864 DOCUMENT TYPE: Product

**PRODUCT NAME: c-tree Plus 6.10 (053864)**

FairCom Corp (350150)  
2100 Forum Blvd #C  
Columbia, MO 65203-5456 United States  
TELEPHONE: (573) 445-6833

RECORD TYPE: Directory

CONTACT: Sales Department

FairCom's c-tree Plus (R) 6.10 is a file manager for commercial database development that is based on the most advanced B+tree routines. It offers advanced file control, a choice of high-level and low-level access routines, and an ODBC layer for high-speed random or sequential access. c-tree Plus is distributed as complete C source code. It has been ported to over 100 environments and includes a robust database server developer's kit. c-tree Plus is also royalty-free for single- and multi-user application development or as a client to FairCom's robust database server. Features of c-tree Plus include a portable thread API; transaction history logic; conditional index support (filters); fixed and variable length records and keys; duplicate keys and/or automatic sequence numbers; dynamic space reclamation; high-speed hashed data and index caching; multiple simultaneous sets, batches, and contexts; and resource records and superfiles. The system offers support for Windows, Macintosh, and UNIX.

DESCRIPTORS: **Embedded Systems ; Database Utilities; Program Development; Database Management; Components**

HARDWARE: IBM PC & Compatibles; UNIX; Apple Macintosh  
OPERATING SYSTEM: QNX; Linux; Windows; MacOS; Windows NT/2000; UNIX; ODBC  
PROGRAM LANGUAGES: C  
TYPE OF PRODUCT: Mainframe; Mini; Micro; Workstation  
POTENTIAL USERS: Developers, Embedded Systems, Database Developers  
PRICE: \$895

DOCUMENTATION AVAILABLE: User manuals; online documentation  
REVISION DATE: 020101

15/5/5

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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01036731 DOCUMENT TYPE: Product

**PRODUCT NAME: Centura RDM Database Manager 5.0 (036731)**

Centura Software Corp (427161)  
975 Island Dr  
Redwood Shores, CA 94065 United States  
TELEPHONE: (650) 596-3400

RECORD TYPE: Directory

CONTACT: Sales Department

Centura RDM Database Manager (TM) 5.0, from Centura Software, is a data management tool that can be used within a variety of industries and applications. It ensures data integrity by managing user access, recording user activity, and transmitting updates to the transaction log and the database to protect against lost data due to system error. Centura RDM

Database Manager manages C language data types, enabling C++ developers to combine C API calls. It combines the benefits of relational and pointer-based database models in order to allow developers to choose their preferred model or receive the combined benefits of both models. Century RDM Database Manager uses only a small amount of RAM and disk space and can modify page and cache sizes to suit specific business needs. It offers businesses an easily deployable database engine that can be integrated with any application. Centura RDM Database Manager supports Windows NT, 2000, 95, and 98.

DESCRIPTORS: **Embedded Systems** ; Program Development; **Database Management**; **Components**

HARDWARE: IBM PC & Compatibles; Sun; UNIX; IBM; HP  
OPERATING SYSTEM: Windows; Windows NT/2000; HP-UX; AIX; Solaris  
PROGRAM LANGUAGES: C; C++; ActiveX  
TYPE OF PRODUCT: Mini; Micro; Workstation  
POTENTIAL USERS: Embedded Systems Developers  
PRICE: Available upon request

REVISION DATE: 020101

15/5/6

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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01020231 DOCUMENT TYPE: Product

**PRODUCT NAME: On Time RTOS-32 (020231)**

On Time (587036)  
88 Christian Ave  
Setauket, NY 11733 United States  
TELEPHONE: (516) 689-6654

RECORD TYPE: Directory

CONTACT: Sales Department

On Time RTOS-32 from On Time is a royalty-free embedded operating system for x86-compatible CPUs, which uses a Microsoft Windows NT subset in 16K of memory. Fully integrated with Microsoft Visual Studio and other compilers, On Time RTOS- 32 is comprised of five discrete **components** . RTTarget-32 Core Operating System and Development Tools includes the tools necessary to run 32-bit applications on an **embedded system** : a run-time **library** , a cross debugger, a locator, and the boot code for initializing the target's hardware. RTKernel-32 Real-Time Scheduler creates critical **sections** , semaphores, and threads. RTFiles-32 Embedded File System, like RTTarget-32 and RTKernel- 32, operates through a Win32 API emulator and its own API. It lets embedded applications read and write files. RTIP-32 Embedded TCP/IP Stack gives RTOS-32 systems networking capabilities. RTPEG-32 Portable Embedded GUI is an event- driven, object-oriented GUI **library** for **embedded systems** .

DESCRIPTORS: Operating Systems; Real Time Data Acquisition; **Components** ; Emulators; Network Software; Cross Development; Embedded Systems; Program Development

HARDWARE: IBM PC & Compatibles  
OPERATING SYSTEM: Proprietary Operating Environment; Windows NT/2000  
PROGRAM LANGUAGES: C++  
TYPE OF PRODUCT: Micro  
POTENTIAL USERS: Embedded Systems Developers, Embedded Systems Manufacturers  
PRICE: Available upon request; demo disk available; no run-time royalties; includes support

DOCUMENTATION AVAILABLE: Source code  
TRAINING AVAILABLE: Telephone support; e-mail support; technical support  
REVISION DATE: 020101

15/5/7

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00123176 DOCUMENT TYPE: Review

PRODUCT NAMES: VisualAge Micro Edition (799696)

TITLE: IBM Brings Object-Oriented Java to Embedded

AUTHOR: Cole, Bernard

SOURCE: Electronic Engineering Times, v1102 p69(3)wire Feb 28, 2000

ISSN: 0192-1541

HOME PAGE: <http://www.eet.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

IBM's VisualAge Micro Edition (VAME), a Java-based integrated development environment (IDE), is designed for developers who want to do all their embedded designs in Java. IBM hopes that popularity of VAME with embedded designers will result in broad-based use of object-oriented shared repositories as part of embedded development projects. VAME includes various tools that are used universally in embedded applications, but are not often used in Java development, including a Java-aware smart linker, a remote debugger, a real-time performance analyzer, and a real-time profiler. According to Skip McGaughey, director of embedded systems development for Object Technology, 'Right now, doing Java without tools specifically designed for the embedded environment is a cumbersome process of editing, then compiling Java, in a batch-oriented process against the entire base class library.' Various other features should make application development more efficient, particularly for larger, geographically scattered development teams. IBM's development team, which has used VAME, says they have experienced its effectiveness and that some of its versatility comes from use of Java and its object-oriented technology and the shared repository scheme for project management. In the shared repository, such entities as applications, tools, code, and ordinary files exist together in democratic environments.

COMPANY NAME: IBM Corp (351245)

SPECIAL FEATURE: Charts

DESCRIPTORS: Compilers; Electronics; Embedded Systems; IDEs; Java; Program Development

REVISION DATE: 20001230

15/5/8

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00121999 DOCUMENT TYPE: Review

PRODUCT NAMES: SQL Anywhere (598968); MedStation Rx System 2000 (789364); PointBase 2.1 (753963); Pervasive.SQL (538469); Raima Database Manager (017478)

TITLE: Embedded Databases step forward

AUTHOR: Waters, John K

SOURCE: Application Development Trends, v6 n12 p55(5) Dec 1999

ISSN: 1073-9564

HOME PAGE: <http://www.spgnet.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

Sybase's SQL Anywhere, Pyxis's Medstation Rx System 2000, PointBase's PointBase 2.1, Pervasive Software's Pervasive.SQL, and Raima's Raima Database Manager are highlighted in a discussion of the ways in which embedded databases are used in configurations supporting application integration and management and data warehousing. Embedded databases generally fall into two categories, say experts: application-embedded databases and device-embedded databases. Intelligent appliances are now becoming an important and expanded market that goes beyond telecommunication devices to, for instance, vending machines that automatically send refill orders and slot machines that track winnings. Device-embedded databases have to make their products smaller with lower resource requirements, says an analyst, and embedded database purchasers have to be convinced that smaller databases with fewer abilities are a good value. UltraLite, a version of SQL Anywhere requires only about 50K, and Sybase ASA technology is the foundation of Medstation Rx System 2000. Medstation Rx System 2000, an automated pharmaceutical dispensing system, allows access to precise quantities of prescribed drugs and provides accounting and inventory features. PointBase 2.1 is a pure Java embedded database, and Pervasive.SQL allows developers to create and implement 'fingerprint'-sized databases that allow database **components** to be mixed and matched.

COMPANY NAME: Sybase Inc (414981); Pyxis Corp (466603); PointBase Inc (663433); Pervasive Software Inc (583421); Raima Corp (384216)  
DESCRIPTORS: **Database** Management; **Embedded Systems**; Java; Program Development; SQL  
REVISION DATE: 20000430

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DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00116668 DOCUMENT TYPE: Review

PRODUCT NAMES: Sybase Adaptive Server Anywhere 6.01 (704725); Oracle Lite 8i (496065); Microsoft SQL Server 7.0 (259748)

TITLE: **Portable Databases: Information on the Go**  
AUTHOR: Krivda, Cheryl D  
SOURCE: ent, v4 n5 p34(2) Mar 10, 1999  
ISSN: 1085-2395  
HOMEPAGE: <http://www.entmag.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

Sybase's Sybase Adaptive Server Anywhere 6.01, Oracle's Oracle Lite 8i, and Microsoft SQL Server 7.0 are highlighted in a discussion of portable databases as tools that support multiple form factors, including conventional laptops, palm-sized devices, and smart cellular phones. The ability of field personnel to employ such devices to gain access to a local data store while disconnected from the enterprise system is critical to maintaining a competitive stance in any industry. Most major database vendors, including the ones mentioned and Cloudscape, contend that their products support portable databases using very little memory and other system resources. These databases can use laptops, but users of smaller Windows CE-based devices or PalmPilots need even more compact and efficient databases. In response, Microsoft removed interdependencies from multiple SQL Server 7.0 **modules** to make the database more **module**-based, while Sybase is testing 'ultralight' technology designed to provide database application functions in only 30MB to 50MB. Companies with large product catalogs need a small footprint database that is easily distributed and provides robust replication and gateway technology.

COMPANY NAME: Sybase Inc (414981); Oracle Corp (010740); Microsoft Corp  
(112127)  
SPECIAL FEATURE: Screen Layouts  
DESCRIPTORS: **Database** Management; **Database** Servers; **Embedded**  
**Systems** ; Handhelds & Palmtops; Laptops; Oracle; Program Development;  
SQL; SQL Server  
REVISION DATE: 20010730

15/5/10

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00114488 DOCUMENT TYPE: Review

PRODUCT NAMES: **Progress RDBMS** (017713); **Persuasive SQL DBMS** (746975);  
**Cloudscape** (776271); **Navajo** (746991); **Centura Team Developer** (613681)

TITLE: **Big Changes in Store for Little Databases**  
AUTHOR: Gill, Stephen J  
SOURCE: Component Strategies, v1 n6 p8(2) Dec 1998  
ISSN: 1055-3614  
HOMEPAGE: <http://www.sigs.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

Progress Software's Progress, Pervasive Software's Pervasive SQL DBMS, Cloudscape's namesake product, POET Software's Navajo, and Centura Software's Centura Team Developer are among products highlighted in a discussion of changes in the implementation of embedded databases. New embedded device classes for such devices as Web-ready personal digital assistants, cellular phones, Internet appliances, and smart cards has prompted many vendors to develop supporting **components** . Many more choices can be expected by **component** developers, who will need better development tools. Established embedded database developers include Progress Software, Centura Software, and Pervasive Software. Two newcomers are Cloudscape and POET **Software** . Cloudscape describes its **embedded database** as a completely object-relational database management system written in 100 percent Pure Java, with a size under 1.5MB. The embedded object-relational database manager has been available for a year. POET makes a full-functioned OODBMS and is creating a more compact object database for the embedded market. The code will be based on POET's object database, which has native persistence for Java objects. Navajo's planned features reflect the overall direction taken by embedded database developers. It is written in Java and should run on any device with a Java Virtual Machine. The core database can be extended using 'lite' **modules** that offer load-on-demand functions, including a two-phase commit and XML.

COMPANY NAME: Progress Software Corp (436461); Pervasive Software Inc  
(583421); Cloudscape Inc (639737); POET Software Corp (520411);  
Centura Software Corp (427161)  
SPECIAL FEATURE: Charts  
DESCRIPTORS: 4GL (Fourth Generation Languages); **Database** Management;  
**Embedded Systems** ; Java; OOP (Object Oriented Programming); Program  
Development; Progress; Smart Cards  
REVISION DATE: 20020819

15/5/11

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00111601 DOCUMENT TYPE: Review

PRODUCT NAMES: **JBMS** (694207)

**TITLE:** Java Database Solves Portability Issues  
**AUTHOR:** Carr, David F  
**SOURCE:** Internet World, v4 n35 p29(2) Oct 26, 1998  
**ISSN:** 1097-8291  
**HOMEPAGE:** <http://www.iw.com>

**RECORD TYPE:** Review  
**REVIEW TYPE:** Product Analysis  
**GRADE:** Product Analysis, No Rating

Cloudscape's JBMS, an embeddable Java database, has established a presence on Fortune 1000 intranets, due to Dow Jones Interactive. In June, Dow Jones introduced the Interactive Intranet Toolkit, a package for helping companies enhance their intranets with custom newsfeeds from the Dow Jones News Service and other sources. The toolkit is used by about 100 customer sites. Dow Jones makes use of JBMS as **part** of its application, for accomplishing parsing, indexing, and presenting personalized newsfeeds. Dow Jones selected JBMS because it wanted something that would run immediately and on both Windows NT and Solaris platforms. Cloudscape was the only vendor offering a product that was portable. Dow Jones needed an embeddable database to avoid the additional development efforts of integrating with all of its customers' databases. Dow Jones was writing its own software in Java, and using an embedded database written in another language would still cause problems and the applications would still require modifications for each target platform. JBMS is a relational database with object extensions that can be used to manage non-traditional data types.

**COMPANY NAME:** Cloudscape Inc (639737)  
**SPECIAL FEATURE:** Charts  
**DESCRIPTORS:** **Database** Management; **Embedded Systems** ; Intranets; Java; News Services; OOP (Object Oriented Programming); Program Development  
**REVISION DATE:** 20020228

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DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00111177 DOCUMENT TYPE: Review

**PRODUCT NAMES:** Java (573744); Java Studio (677124); VisualAge for Java (651729); WinRunner (473332); Object GridJ (720755)

**TITLE:** New Development Tools Keep Java Percolating  
**AUTHOR:** Spindell, Ralph  
**SOURCE:** Electronic Design, v46 n17 p35(5) Jul 20, 1998  
**ISSN:** 0013-4872  
**HOMEPAGE:** <http://www.elecdesign.com>

**RECORD TYPE:** Review  
**REVIEW TYPE:** Product Analysis  
**GRADE:** Product Analysis, No Rating

Sun Microsystems' Java Studio, IBM's VisualAge for Java, Mercury Interactive's WinRunner, and Stingray's Object GridJ are among many highlighted discrete Java-based discrete tools and integrated development environments (IDEs) for Java code generation. The default Java application programming interface (API) provides a comprehensive set of classes, but Java development tools suppliers are providing **modules** that enhance performance, and security, and provide third- **party** libraries for electronic commerce, business objects, and other requirements. Discrete tools emphasize debugging, class browsing, testing, quality assurance, profiling, and porting. Installation and distribution, database connectivity, client/server, thin-client, and server-side development tools are available as well. Also provided are **embedded system** tools, class **libraries** , **component** Bean **libraries** , and graphical user interface (GUI) toolkits. Full tool suites available include IDEs and workbenches,

.3GL rapid application development (RAD) visual design and authoring tools, and CASE tools supporting or generating Java code. Among other tools are preparers, code and version management, documentation tools, and just in time compilers. Visual Cafe Pro is an IDE, while InstallAnywhere 2 is an installation/distribution tool. Applet Designer Enterprise 1.7 is a porting and code translation tool, and Mocha is a decompiler. Other tools include **Parts** for Java Professional, a toolset for teams building distributed applications, and Object Grid/J, a JavaBean **component** library.

COMPANY NAME: Sun Microsystems Inc (385557); IBM Corp (351245); Mercury Interactive Corp (523747); Stingray Software Inc (621277)  
SPECIAL FEATURE: Screen Layouts Charts  
DESCRIPTORS: Code Generators; Electronics; IDEs; Interfaces; Java; Program Development; Programming Languages  
REVISION DATE: 20020730

15/5/13

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00085761 DOCUMENT TYPE: Review

PRODUCT NAMES: InterBase 4.5 (015023)

TITLE: Borland has high hopes for InterBase relaunch  
AUTHOR: Ricciuti, Mike  
SOURCE: InfoWorld, v17 n51 p10(1) Dec 18, 1995  
ISSN: 0199-6649  
HOMEPAGE: <http://www.infoworld.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

Borland International plans a relaunch of its INTERBASE 4.5 database, making it a database server with support for three-tier applications and links to World Wide Web servers. INTERBASE is used generally as an **embedded database** in third-party products, but Borland envisions it as a database server for construction of three-tier client/server and Web-ready applications for distributed IS organizations. INTERBASE 4.5 ships with support for Common Object Request Broker Architecture (CORBA)-compatible objects used in three-tier distributed object platforms. Replication tools for moving data among INTERBASE databases. Gateways to Oracle 7, Sybase SQL Server, and other database servers are also provided. Users interviewed say INTERBASE's new functions mesh well with many organizations' current plans to link to the Internet.

COMPANY NAME: Borland Software Corp (347141)  
SPECIAL FEATURE: Charts  
DESCRIPTORS: Client/server; Database Management; Database Servers; Distributed Objects; Network Software; Program Development  
REVISION DATE: 20010830

15/5/14

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00068232 DOCUMENT TYPE: Review

PRODUCT NAMES: Company--Novell Inc (850438)

TITLE: Focus On NetWare  
AUTHOR: Gillooly, Caryn  
SOURCE: Information Week, v488 p16(1) Aug 15, 1994  
ISSN: 8750-6874  
HOMEPAGE: <http://www.informationweek.com>



RECORD TYPE: Review  
REVIEW TYPE: Company

Novell has always tried to make its NetWare network operating system work with other systems without showing favoritism. The company sold two of its products in order to maintain that strategy. It sold its Btrieve database technology to prove it had no **database** bias, and sold its FlexOS **embedded** operating **system** for the same reason. FlexOS is a real-time operating system that is embedded in hardware, and used in devices such as cash registers and factory machinery. FlexOS had been a **part** of Novell's embedded systems architecture, called Novell Embedded Systems Technology (Nest), which connects office equipment into the NetWare environment. Novell sold FlexOS to focus more generally on the Nest product line, which is operating system independent. Novell sold the product to Integrated Systems, taking only a small stake in the company. Novell is not on the Integrated board, and has no direct management there.

COMPANY NAME: Novell Inc (344893)  
DESCRIPTORS: Database Management; LANs; NetWare; Network Software;  
Operating Systems; Real Time Data Acquisition; Software Marketing  
REVISION DATE: 20020703